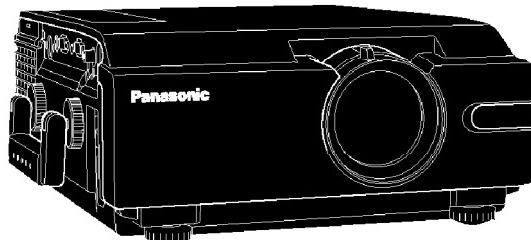


ORDER NO. VED0108317C0
D10

Service Manual

LCD Projector

PT-L759VU / PT-L759XU / PT-L759VE / PT-L759XE / PT-L1759V / PT-L1759X



SPECIFICATIONS

Specifications

LCD panels

1.3" Poly silicon LCD panel (W/MLA) X 3, / RGB shutter method, using Translucent TN crystal panels

Drive method

Active Matrix 4:3 Aspect Ratio panels, TFT (Thin Film Transistor)

No. of pixels

786 432 (1 024 X 768) stripe pixels X 3 panels

Lens

PT-L759XU/XE/PT-L1759X:

1-1.3 zoom lens, F2.0-2.5, f45 mm- 59 mm Manual Focus

PT-L759VU/VE/PT-L1759V:

1-1.3 zoom lens, F2.5-3.0, f45 mm- 59 mm Manual Focus

Projector lamp

220 W UHM Lamp

Contrast ratio

450 : 1

Brightness

PT-L759XU/XE/PT-L1759X:

3 100 lm (ANSI)

Note

- Specifications and design subject to change without notice.

PT-L759VU/VE/PT-L1759V:
2 400 lm (ANSI)

No. of colors
16 777 216

Screen size
0.508 m (20") - 7.620 m (300") (measured diagonally)

Projection (throw) distance
0.85 m (2.62') - 13.45 m (44.29')

Lens axis shift
6 : 1 Low position

Compatible scanning frequency

Video/S-Video signal
H-Frequency 15.74 kHz/15.63 kHz V-Frequency 50 Hz/60 Hz

RGB signal
H-Frequency 24 kHz-110 kHz (TTL Level) / V-Frequency 50 Hz-101 Hz (TTL Level) / Dot clock-Frequency 135 MHz or lower

DVI-D signal: PT-L759XU/XE/PT-L1759X
VGA 60 Hz, SVGA 60 Hz, XGA 60 Hz, SXGA 60 Hz

YPBPR signal

480 i	H-Frequency	kHz	V-Frequency	60 Hz
	15.75			
480 p	H-Frequency	31.5 kHz	V-Frequency	60 Hz
625 i	H-Frequency	kHz	V-Frequency	50 Hz
	15.63			
720 p	H-Frequency	45 kHz	V-Frequency	60 Hz
1 080 i	H-Frequency	kHz	V-Frequency	60 Hz
	33.75			

Video systems
PAL/SECAM/NTSC/PAL-M/PAL-N/NTSC4.43

Connectors

RGB1/YPBPR Input: D-Sub mini 15-pin X1

RGB2 Input/RGB1 Output: D-Sub mini 15-pin X1

Video signal

RGB Analog
0.7 V [p-p], 1.0 V [p-p] with sync on green, 75 Ω

YPBPR
Y: 1.0 V [p-p], PBPR: 0.7 V [p-p], 75 Ω

Sync signal
H/V separate, H/V composite, or Sync-on-Green

DVI-D Input: DVI-D 24-pin X1: PT-L759XU/XE/PT-L1759X

Audio Input (for RGB/YPBPR/DVI-D): M3 stereo mini pin X1
0.32 V [rms]

Video Input: RCA pin X1
1 V [p-p], sync negative, 75 Ω terminated

S-Video Input: Mini Din 4-pin X1

Note

- Specifications and design subject to change without notice.

Y (luminance signal): 1 V [p-p], sync negative, / 75 Ω terminated

C (chrominance signal): burst 0.286 V [p-p], / 75 Ω terminated

Audio Input (for Video/S-Video): M3 stereo mini pin X1
0.32 V [rms]

Audio output: M3 stereo mini pin X1
0.32 V [rms]

USB 4-pin X1 (Type B)

MOUSE Port: 13-Pin round connector X1

Serial Port (RS-232C): Mini Din 8-pin X1

Controls

Cabinet Buttons/ Switches

Main Power ON/OFF, Power ON/OFF, Volume+/-, Auto setup,
Menu, Input, ▲, ▼, <, >, Enter, Keystone

Remote Control Buttons

Power ON/OFF, Freeze, Shutter, Mute, Volume+/-, Enter,
Menu, Input, ▲, ▼, <, >, Laser, D. Zoom+/-,
Keystone, Auto setup, Mouse, Click1, Click2

Audio output

1.5 W (10% THD)

Speaker

70 mm X 40 mm X 1 (2.76" X 1.58" X 1)

Operating Temperature

0°C to 40°C (32°F to 104°F)

Operating Humidity

20% - 80% (non-condensing)

Storage Temperature

-20°C to 40°C (-4°F to 104°F) Humidity (5% - 85% (non-condensing))

-20°C to 60°C (-4°F to 140°F) Humidity (Normal humidity)

Power Supply

100 V - 240 V AC (50 Hz or 60 Hz) Automatic

Power consumption

370 W

Dimensions W X H X D

263 mm X 124 mm X 336 mm (10-6/16" X 4-14/16" X 13-14/16")

Amps

3.7 A - 1.5 A

Weight

6.3 Kg (13.9 lbs.)

Approvals

FCC, UL, C-UL, CE, VDE, FDA, CCIB

Note

- Specifications and design subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Please refer to the Operating Instructions in the appendix folder. / ([Go to Appendix List](#))

Panasonic

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagram, Circuit Boards, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Caution: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance and prevent undesirable interference, use only the provided shielded VGA cable with 2 ferrite cores while connecting LCD to computer and all other connecting cables should be shielded. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operating Instructions: From this projector's manual, operating instructions is in another folder of the CD-ROM.

1. SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

- 1. For continued safety, no modification of any circuit should be attempted.**
- 2. Disconnect AC Plug before disassembling this unit.**
- 3. It is advisable to use an isolation transformer in the AC supply before servicing.**
- 4. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
- 5. After servicing, see to it that all the protective devices such as**

insulation barriers, insulation papers, shield, and isolation R-C combinations etc. are properly installed.

6. After servicing, be sure to restore the wires, leads, insulation barriers, shields, etc.
7. After servicing, make the leakage current checks to prevent the customer from being exposed to shock hazards.

Caution:

Use a separate Isolation Transformer for this unit when servicing.

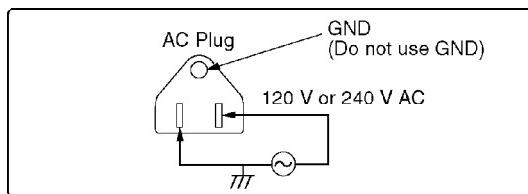
1.2. LEAKAGE CURRENT CHECK

1. Connect AC Plug to 120 volt or 240 volt AC outlet.

Do not use the ground prong of AC Plug. (See **Fig. 1-2-1**)

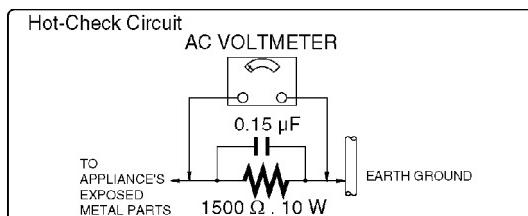
Do not use a isolation transformer for this check.

Fig. 1-2-1



2. Connect a 1500 ohms, 10 watts resistor, in parallel with a $0.15 \mu\text{F}$ capacitor, between each exposed metallic part on the set and a good earth ground. (See **Fig. 1-2-2**)

Fig. 1-2-2



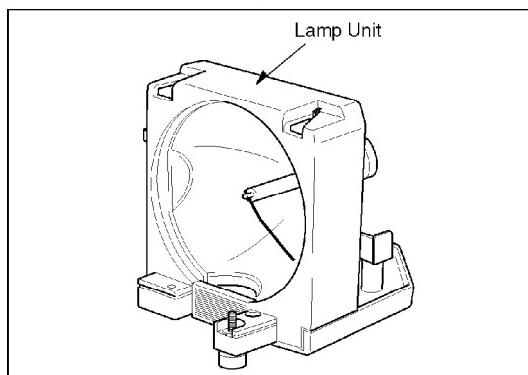
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.125 volt RMS. A leakage current tester (Simpson Model 229 equivalent) may be

used to make the hot checks, leakage current must not exceed 0.75 milliamp. In case a measurement is outside of the limitsspecified, there is a possibility of shock hazard, and the LCD Projector should be repaired and rechecked before it is returned to the customer.

1.3. UV-PRECAUTION

1. Be sure to disconnect the AC Plug when replacing the lamp.
2. Since the lamp reaches a very high temperature during its operation, wait until it has completely cooled off when replacing the Lamp Unit.
3. The lamp emits small amounts of UV-Radiation.
Avoid direct-eye contact.

Fig. 1-3-1

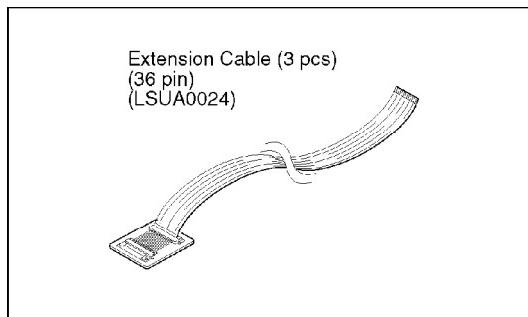


2. SERVICE CAUTIONS AND NOTES

2.1. SERVICE POSITION

The position shown in Fig. 2-1-1 is used for checking, adjusting and replacing parts.
Extension Cable (LSUA0024) is necessary for servicing.

Fig. 2-1-1



1. In the order described in the "3.2. Disassembly Method of Cabinet Parts" of 3. Disassembly/Assembly Procedures, remove

the Top Cover Ass'y.

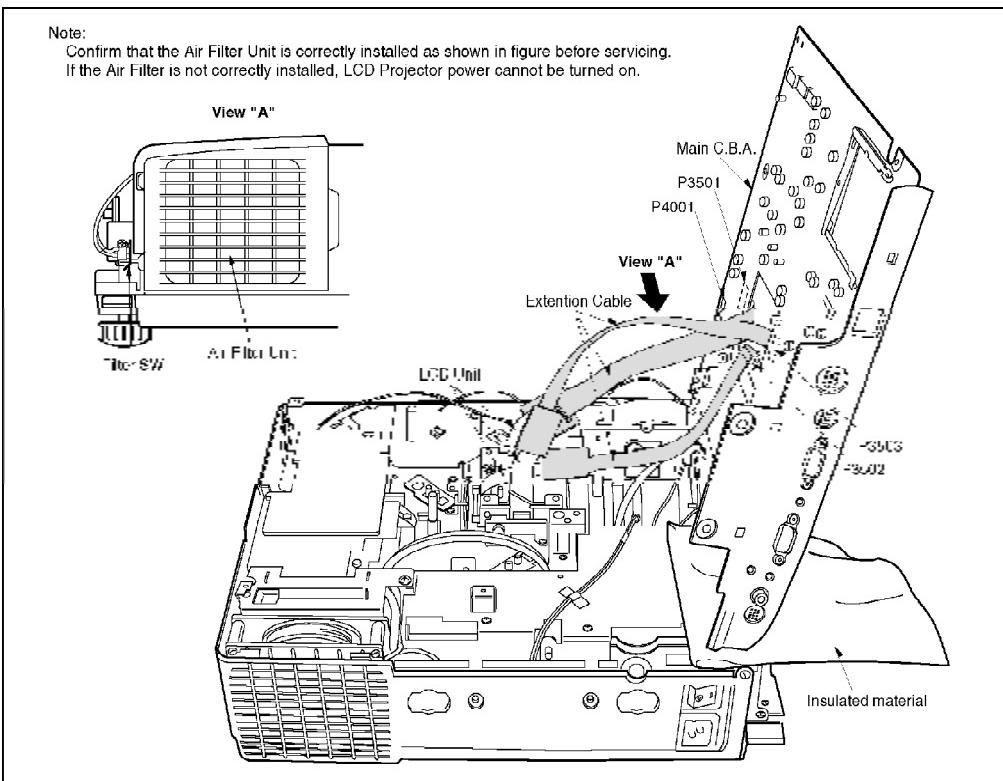
2. Remove 7 screws (F) and 2 screws (G) as shown in [Fig. 3-2-6](#).
3. Disconnect connectors P3501, P3502, P3503 and P4001 on the Main C.B.A.
4. Connect Extension Cables as follows:
 - A. Connect Extension Cable (36 pin) between P3501 on the Main C.B.A. and LCD Red Unit.a) Connect Extension Cable (36 pin) between P3501 on the Main C.B.A. and LCD Red Unit.
 - B. Connect Extension Cable (36 pin) between P3502 on the Main C.B.A. and LCD Green Unit.
 - C. Connect Extension Cable (36 pin) between P3503 on the Main C.B.A. and LCD Blue Unit.
5. Carefully place the Main C.B.A. as shown in [Fig. 2-1-2](#).

Note:

The LCD Projector power cannot be turned on unless the Air Filter unit is correctly installed.

6. After servicing, remove Extension Cables.
7. Reinstall the Main C.B.A., and reconnect connectors.
8. Make sure that all wires and leads are placed in their original position.

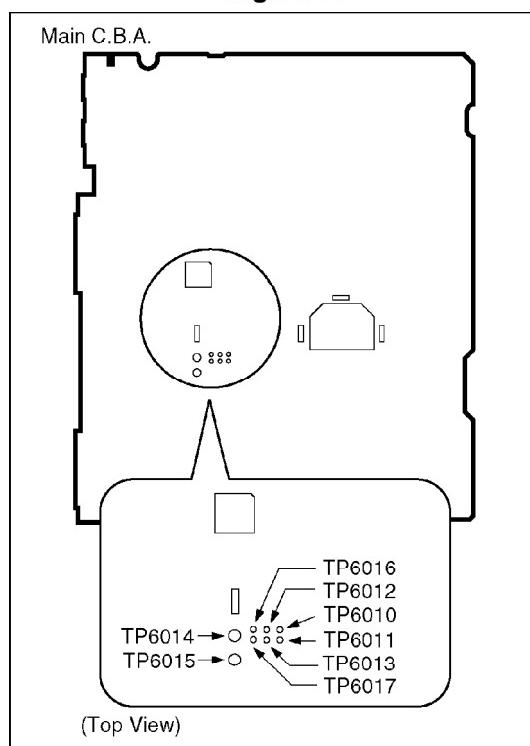
Fig. 2-1-2



2.2. How to display Lamp operation time (Service Mode)

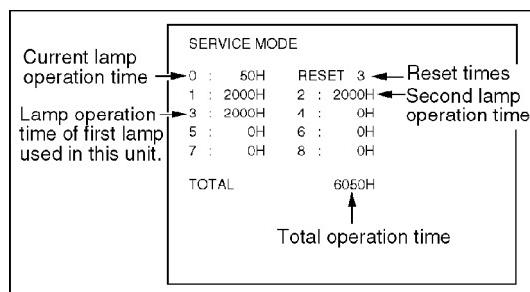
1. Connect a jumper wire between TP6012 and TP6013 on Main C.B.A. for over 5 seconds as shown in **Fig. 2-2-1**.

Fig. 2-2-1



2. Lamp operation time will be displayed as shown in Fig. 2-2-2.

Fig. 2-2-2



3. Connect a jumper wire between TP6012 and TP6013 for over 5 seconds again or press MENU button on remote control in order to release from service mode.

Note:

After replacing Main C.B.A., memory data such as history of lamp operation time has been reset. However, it can be remained by installing EEPROM IC (IC6009) to replaced Main C.B.A. from original Main C.B.A.

2.3. How to initialize EEPROM IC

When EEPROM IC's (IC6009, IC6010) on Main C.B.A. is replaced:

After replacing EEPROM IC's (IC6009, IC6010), be sure to perform each of following steps in the order presented.

- 1. Connect a jumper wire between TP6016 and TP6017 on Main C.B.A. for over 5 seconds as shown in Fig. 2-2-1 to enter Factory mode.**
- 2. "FACTORY" appears on screen (Factory mode).**
- 3. Connect a jumper wire between TP6016 and TP6017 again for over 5 seconds to initialize EEPROM IC's.**
- 4. "Self Check" appears on screen when initializing starts.**
- 5. Remove the jumper wire between TP6016 and TP6017. / "MEMORY OK" appears on screen when initializing is complete. / After initializing is complete, perform necessary adjustments, referring to step 6 through 12.**
- 6. Press the POWER button on remote control once.**

- 7. While "Please press POWER button again to power off." is displayed, press the MENU button on remote control.**
- 8. The Factory Adjust Mode appears on screen.**
- 9. Perform adjustments 4.4.1 through 4.4.5 and 4.4.12 through 4.4.17.**
- 10. After completing all adjustments, press the MENU button to release from the Factory Adjust Mode.**
- 11. Press the POWER button on remote control once.**
- 12. While "Please press POWER button again to power off." is displayed, press the POWER button on remote control to power off. Then, all adjustment data is memorized in EEPROM IC's.**

Note:

- 1. When initializing EEPROM IC's, memory data such as history of lamp operation time and adjustment data will be reset.**
- 2. When "MEMORY NG" appears in step 5, repeat step 3 through step 5 until "MEMORY OK" appears.**

2.4. Lamp replacement procedure

Caution:

Lamp replacement procedure Caution: Because of possibility of injury, strictly follow the replacement procedure below.

- 1. After the cooling fan has stopped, and STANDBY(R) ON(G) indicator turns solid red. Set the Main Power Switch to OFF and unplug the power cord.**

Note:

Please wait more than one hour for lamp replacement.

[If you need to replace the lamp more urgently]

- The LCD Projector has a forced cooling feature. After the POWER switch is turned OFF, and sometime during about the first minute of the normal cooling fan operation, press  and**

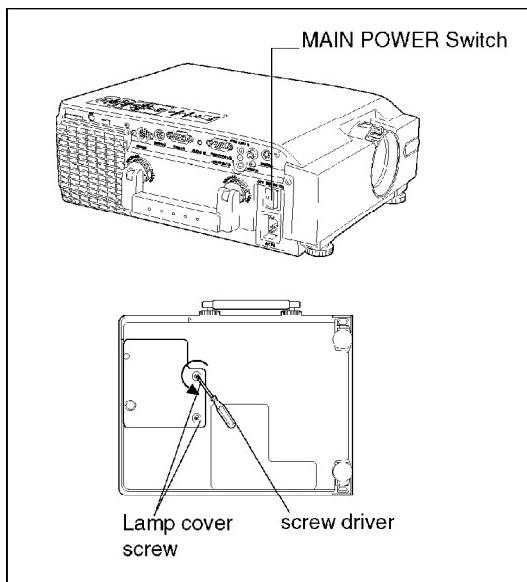
► at same time. The cooling fan will change to high speed for about 10 minutes. (The "C-d" STATUS CODE will be displayed.)

2. Grabbing the handle, place the LCD Projector up on its side as illustrated.

3. Remove the Lamp cover screws.

First read caution and warning labels on Lamp cover. Then, remove the Lamp cover screws (2), and take off the lamp cover.

Fig. 2-4-1



4. Remove the Lamp unit screw.

Remove the lamp unit screw (2), then grasp the Lamp unit handle and carefully pull it from the LCD Projector. Keep Lamp housing opening to your right. Do not touch Lamp or point Lamp opening at anyone.

Fig. 2-4-2

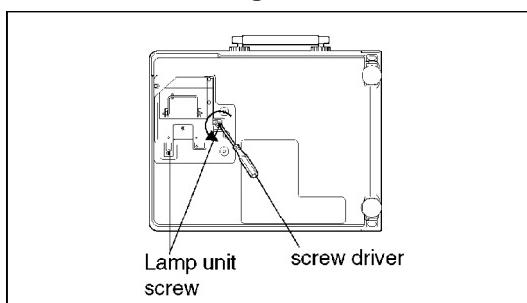
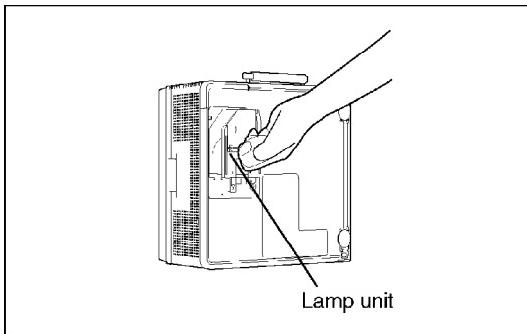


Fig. 2-4-3



WARNING:

The lamp may be hot. Be careful when handling.

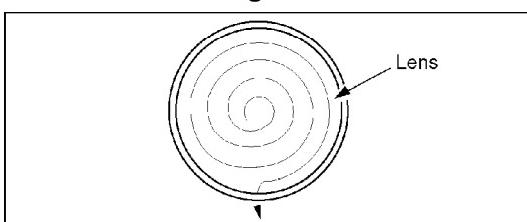
CAUTION

- High-pressure lamp may be explode if improperly handled.
- Danger of injury due to lamp fragments.

2.5. Cleaning the Projection Lens

Use lens cleaning paper and cleaner available at your local camera shop, etc. Dampen the cleaning paper with cleaner and gently wipe the lens surface from the center outward to remove dust as shown in [Fig. 2-5-1](#).

Fig. 2-5-1



Note:

Do not use excessive force when cleaning the lens.

2.6. Connection of the Flexible Cables to Trap Connector

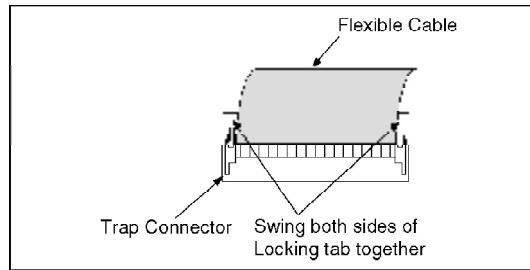
Fig No.	No. of Pins	C.B.A.
P3501	36 pin	Main C.B.A.
P3502	36 pin	Main C.B.A.
P3503	36 pin	Main C.B.A.
P6005	18 pin	Main C.B.A.

(Removal and Installation of Flexible Cable)

- Removal

1. On the Trap Connector, swing both ends of the Locking Tab to release the Trap portion of the Connector. Then pull Flexible Cable out to remove as shown in [Fig. 2-6-1](#).

Fig. 2-6-1



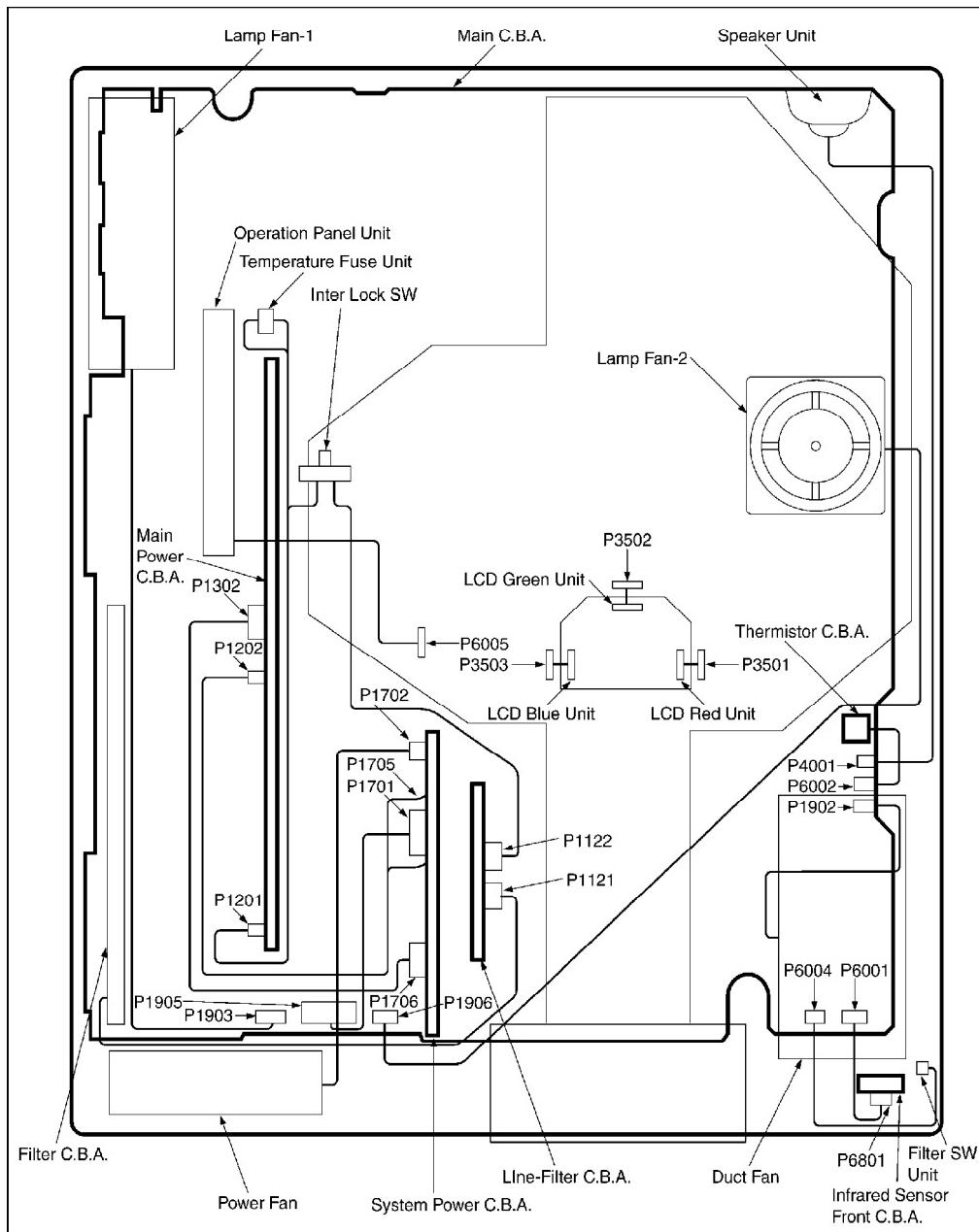
- Installation

- 1. Insert the end of the Flexible Cable into the Trap Connector.**
- 2. Without twisting the Cable, press the Locking Tab in into its locked positions.**
- 3. Gently and slightly pull up on the Cable to confirm if it is installed firmly.**

2.7. Wire and Lead Position Diagram

After servicing, make sure that all wires and leads are placed in their original position. It is important for the best operation of the unit.

Fig. 2-7-1



2.8. External Interface (RS-232C)

2.8.1. Outlined Function

Through connection with external equipment (e.g. personal computer), it can control the projector from outside or can inquire about status.

2.8.2. Requirements for Receiving

- Lamp control command or inquiry command can be received ordinarily.
- Other commands can be received when lamp is set at ON only. / (When lamp is set at OFF, it does communication response to command only and does no actual work.)

2.8.3. Operation

1. Communication

- Speed : 9600 bps (ordinary control)
- Parity : NONE
- Split bit : 1 bit
- Character length : 8 bit
- XON/OFF : NONE
- Letter code : JIS X 0201 (capital letters only)

2. Connection

In this case, the projector is DCE (Data Circuit Ending device). Connect it with the personal computer by a straight cable.

- TXD: Data sent from projector
- RXD: Data received from personal computer

3. Configuration of Command

A. Transmission Command:

Command consists of 3 characters following STX and with ETX at the end. / When a parameter is needed, cut off by inserting a colon(:).

[STX] + [Command] + [(:parameter)] + [ETX]

B. Response

At the end of a command, either one of the following is returned
:
(At a normal end)

- On execution of a control command

[STX] + [Command] + [(:parameter)] + [ETX]

- On execution of a inquiry command

[STX] + [Data] + [ETX]

(At an abnormal end, or on reception of an invalid command/parameter)

The command which is sent is returned by attaching to the error code (ER401 or ER402).

- On an invalid command (or an abnormal end)

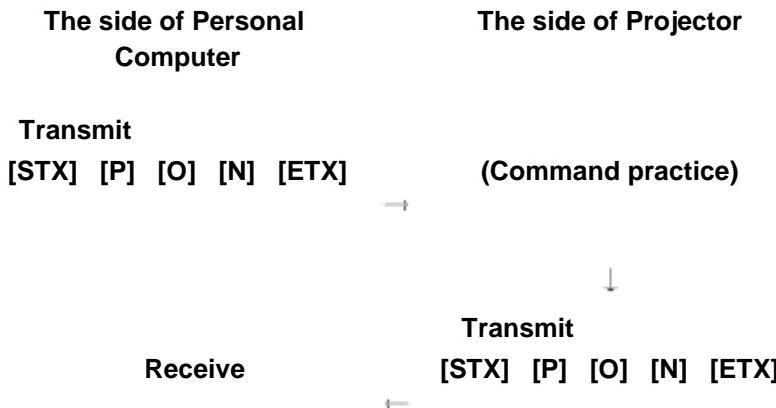
[STX] + [E] + [R] + [4] + [0] + [1] + [:] + [Command] +

[(:parameter)] + [ETX]

- On an invalid parameter

**[STX] + [E] + [R] + [4] + [0] + [2] + [:] + [Command] +
[(:parameter)] + [ETX]**

4. The use example of the command



2.8.4. Command List

2.8.4.1. Control command

Command Name <>: Parameter Format	Description	Projector Replying <>: Parameter Format	Parameter		Re
			Min.	Max.	
PON	POWER ON	PON	—	—	
POF	POWER OFF	POF	—	—	
IIS: <input signal>	INPUT SELECT	IIS: <input signal>	—	—	
ORF: <RGB1 signal>	RGB1 INPUT TERMINAL SETTING	ORF: <RGB1 signal>	0	1	
ORS: <RGB2 mode>	RGB2 TERMINAL SETTING	ORS: <RGB2 mode>	0	1	
AVL: <pl1>	AUDIO VOLUME ADJUSTMENT	AVL: <pl1>	000	063	
AMT: <off on>	AUDIO MUTE ON/OFF	AMT: <off on>	0	1	
OPM: <off on>	VIDEO MUTE ON/OFF	OPM: <off on>	0	1	
OFZ: <off on>	FREEZE ON/OFF	OFZ: <off on>	0	1	
VPM: <picture mode>	PICTURE SELECT	VPM: <picture mode>	—	—	
VCO: <pl2>	COLOR ADJUSTMENT	VCO: <pl2>	-30	+30	
VTN: <pl2>	TINT ADJUSTMENT	VTN: <pl2>	-30	+30	
VBR: <pl2>	BLACK LEVEL ADJUSTMENT	VBR: <pl2>	-30	+30	

*1 : Of some kinds of signals the adjustable extent is very narrow.

Command Name <>: Parameter Format	Description	Projector Replying <>: Parameter Format	Parameter		Re
			Min.	Max.	
VCN: <pl2>	CONTRAST ADJUSTMENT	VCN: <pl2>	-30	+30	
VSR: <pl2>	SHARPNESS ADJUSTMENT	VSR: <pl2>	-04	+03	
VWR: <pl2>	R LEVEL ADJUSTMENT	VWR: <pl2>	-30	+30	
VWG: <pl2>	G LEVEL ADJUSTMENT	VWG: <pl2>	-30	+30	
VWB: <pl2>	B LEVEL ADJUSTMENT	VWB: <pl2>	-30	+30	
VHP: <pl2>	H POSITIONING	VHP: <pl2>	(-50)	+50	*1
VVP: <pl2>	V POSITIONING	VVP: <pl2>	(-30)	(+30)	*1
VDC: <pl2>	DOT CLOCK ADJUSTMENT	VDC: <pl2>	(-50)	+90	*1
VCP: <pl1>	PHASE ADJUSTMENT	VCP: <pl1>	000	031	
VSG: <tv system>	TV SYSTEM SELECT	VSG: <tv system>	—	—	
OKS: <pl3>	KEYSTONE ADJUSTMENT	OKS: <pl3>	-120	+120	
OIL: <installation>	PROJECTING MODE SELECT	OIL: <installation>	1	4	
OSS: <screen size>	SCREEN SIZE SELECT	OSS: <screen size>	0	1	
OWZ: <magnification-1>	D.ZOOM MAGNIFICATION SETTING	OWZ: <magnification-1>	10	50	
OZU	D.ZOOM MAGNIFICATION UP	OZU	—	—	
OZD	D.ZOOM MAGNIFICATION DOWN	OZD	—	—	
OTZ: <magnification-2>	COMPRESSION MAGNIFICATION SETTING	OTZ: <magnification-2>	0625	1000	
OWD: <off on>	WIDE SCREEN ON/OFF	OWD: <off on>	0	1	
OID: <off on>	ON SCREEN DISPLAY ON/ OFF	OID: <off on>	0	1	
OLF: <no yes>	AUTO LAMP OFF FUNCTION SETTING	OLF: <no yes>	0	1	
OLG: <language>	LANGUAGE SELECT	OLG: <language>	—	—	
AUU	AUDIO VOLUME UP	AUU	—	—	
AUD	AUDIO VOLUME DOWN	AUD	—	—	
OMN	MENU	OMN	—	—	
OCU	CURSOR UP	OCU	—	—	
OCD	CURSOR DOWN	OCD	—	—	
OCL	CURSOR LEFT	OCL	—	—	
OCR	CURSOR RIGHT	OCR	—	—	
OEN	ENTER	OEN	—	—	
OAS	AUTO SETUP	OAS	—	—	

*1 : Of some kinds of signals the adjustable extent is very narrow.

2.8.4.2. Inquiry command

Command Name	Description	Projector Replying <>: Parameter Format	Re
QPW	The confirmation of the power condition	<power condition>	
QIN	The confirmation of the chosen input signal terminal	<input signal>	
QRF	The confirmation of the input setting of RGB1 terminal	<RGB1 signal>	
QRS	The confirmation of the setting condition of RGB2 terminal	<RGB2 mode>	
QAV	The confirmation of the audio volume level	<pl1>	
QMT	The confirmation of the condition of "VIDEO/AUDIO MUTE ON/OFF"	<mute>	
QMU	The confirmation of the condition of "VIDEO MUTE ON/OFF"	<off on>	
QFZ	The confirmation of the condition of "FREEZE ON/OFF"	<off on>	
QPM	The confirmation of "PICTURE MODE"	<picture mode>	
QVC	The confirmation of "COLOR ADJUSTMENT VALUE"	<pl2>	
QVT	The confirmation of "TINT ADJUSTMENT VALUE"	<pl2>	
QVB	The confirmation of "BLACK LEVEL ADJUSTMENT VALUE"	<pl2>	
QVR	The confirmation of "CONTRAST ADJUSTMENT VALUE"	<pl2>	
QVS	The confirmation of "SHARPNESS ADJUSTMENT VALUE"	<pl2>	
QWR	The confirmation of "R LEVEL ADJUSTMENT VALUE"	<pl2>	
QWG	The confirmation of "G LEVEL ADJUSTMENT VALUE"	<pl2>	
QWB	The confirmation of "B LEVEL ADJUSTMENT VALUE"	<pl2>	
QHP	The confirmation of "H POSITIONING VALUE"	<pl2>	
QVP	The confirmation of "V POSITIONING VALUE"	<pl2>	
QDC	The confirmation of "DOT CLOCK ADJUSTMENT VALUE"	<pl2>	
QCP	The confirmation of "PHASE ADJUSTMENT VALUE"	<pl1>	
QSG	The confirmation of the condition of "TV SYSTEM SELECT"	<tv system>	
QKS	The confirmation of "KEYSTONE ADJUSTMENT VALUE"	<pl3>	
QSP	The confirmation of "PROJECTING MODE"	<installation>	
QSS	The confirmation of "SCREEN SIZE"	<screen size>	

Command Name	Description	Projector Replying <>: Parameter Format	Re
QWZ	The confirmation of "D.ZOOM MAGNIFICATION"	<magnification-1>	
QTZ	The confirmation of "COMPRESSION MAGNIFICATION"	<magnification-2>	
QWD	The confirmation of the condition of "WIDE SCREEN ON/OFF"	<off on>	
QID	The confirmation of the condition of "ON SCREEN DISPLAY ON/OFF"	<off on>	
QLF	The confirmation of the condition of "AUTO LAMP OFF FUNCTION SETTING"	<no yes>	
QLG	The confirmation of the chosen "LANGUAGE"	<language>	
Q\$L	The confirmation of the lamp operation time	<acctch>	
Q\$S	The confirmation of the lamp condition	<lamp status>	
QLS	The confirmation of "LAMP ON/OFF"	<lamp off on>	

2.8.4.3. Parameter Format

Parameter Format	Parameter Size	Parameter Definition
<input signal>	3	VID: VIDEO TERMINAL INPUT, SVD: S-VIDEO INPUT, / RG1: RGB1(or TERMINAL INPUT, RGB2: RGB2 TERMINAL INPUT, / DVI: DVI-DTERM INPUT (PT-L759VU/VE/PT-L1759V: REFUSAL)
<RGB1 signal>	1	0: RGB1, 1: YPBPR
<RGB2 mode>	1	0: Input setting, 1: Output setting
<pl1>	3	DECIMAL SYSTEM (without the mark) (0 ~ 999)
<pl2>	3	DECIMAL SYSTEM (with the mark) (-99,---,-01,+00,+01, ---,+99)
<pl3>	4	DECIMAL SYSTEM (with the mark) (-120,---,-001,+000,+001, ---,+120)
<magnification -1>	2	10: X1 (normal), 15: X1.5, 20: X2, 30: X3, 40: X4, 50: X5
<magnification -2>	4	1000: X1 (normal) ~ 0625: X0.625 (VGA size)
<off on>	1	0: OFF, 1: ON
<no yes>	1	0: NOT SET, 1: SET
<picture mode>	3	NAT: NATURAL, DYN: DYNAMIC
<v size>	3	35I: 1035I, 80I: 1080I
<tv system>	3	AUT: AUTO, NTS: NTSC, N44: NTSC4.43: PAL: PAL, PAM: PAL-M, PAI SEC: SECAM
<installation>	1	1: FRONT 2: REAR, 3: CEILING/FRONT, 4: CEILING/REAR
<screen size>	1	0: 4:3 TYPE SCREEN, 1: 16:9 TYPE SCREEN

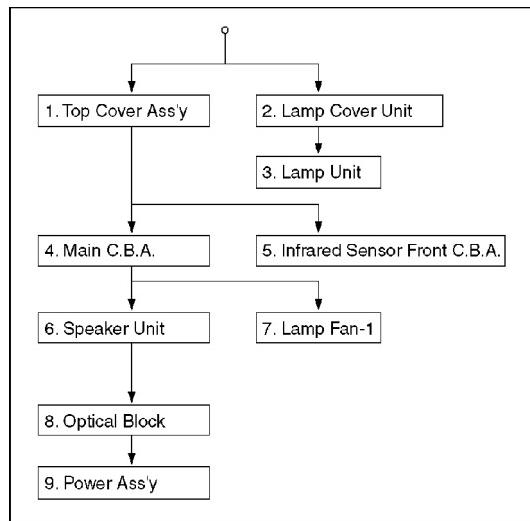
Parameter Format	Parameter Size	Parameter Definition
<language>	3	PT-L1759V/X: ENG: ENGLISH, DEU: GERMAN, FRA: FRENCH, ESP: SPANISH, ITA: I CHI: CHINESE PT-L759VU/VE/XU/XE: ENG: ENGLISH, DEU: GERMAN, FRA: FRENCH, ESP: SPANISH, ITA: I JPN: JAPANESE
<power condition>	3	000: POWER OFF CONDITION, 001: POWER ON CONDITION
<mute>	1	0: MUTE OFF, 1: AUDIO MUTE ON, 2: AUDIO/VIDEO MUTE ON (SHUT)
<acctch>	4	DECIMAL SYSTEM (without the mark) (0000 ~ 9999) [UNIT: HOUR]
<lamp status>	1	0: STANDBY, 1: DURING LAMP LIGHTING-UP CONTROL, 2: LAMP ON CONDITION, 3: DURING LAMP GOING-OUT CONTROL
<lamp off on>	1	0: LAMP OFF, 3: LAMP ON (1,2: NOT USED)

3. DISASSEMBLY/ASSEMBLY PROCEDURES

3.1. DISASSEMBLY FLOWCHART OF CABINET PARTS

This flowchart indicates the disassembly steps of the cabinet parts and the P.C. Boards. When reassembling, perform the step(s) in the reverse order.

Fig. 3-1-1

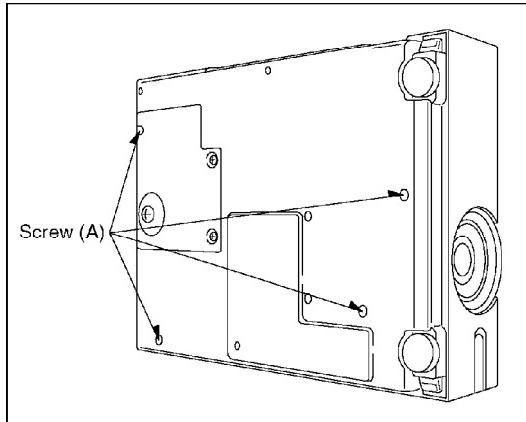


3.2. DISASSEMBLY METHOD OF CABINET PARTS

3.2.1. Removal of the Top Cover Ass'y

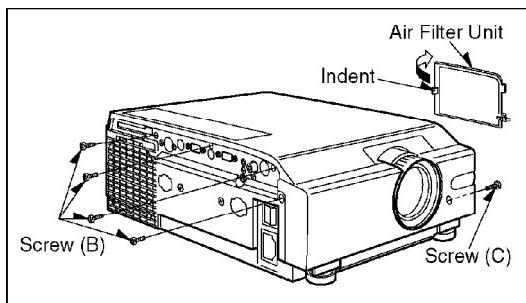
1. Remove 4 screws (A) as shown in Fig. 3-2-1.

Fig. 3-2-1



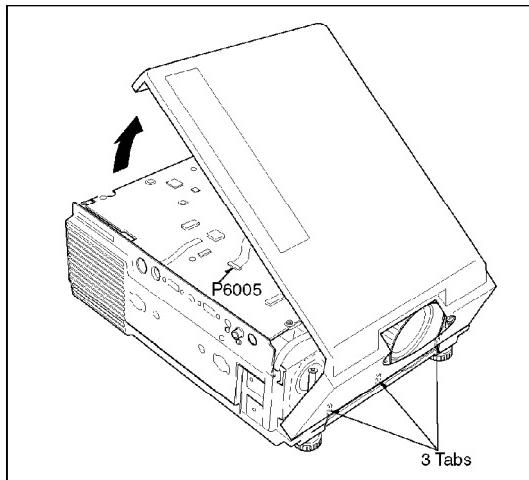
2. Remove 4 screws (B) as shown in [Fig. 3-2-2](#).
3. Hold the indent on the Air Filter Unit and pull the Air Filter Unit out of the LCD projector.
4. Remove a screw (C).

[Fig. 3-2-2](#)



5. Lift up the Top Cover Ass'y carefully rotating in the direction of arrows shown in [Fig. 3-2-3](#) and disconnect a connector P6005.
Caution
Be careful when lifting up the Top Cover Ass'y. A connector P6005 may be damaged if you pull it strongly.
6. Carefully pull out the Top Cover Ass'y paying attention to 3 tabs.

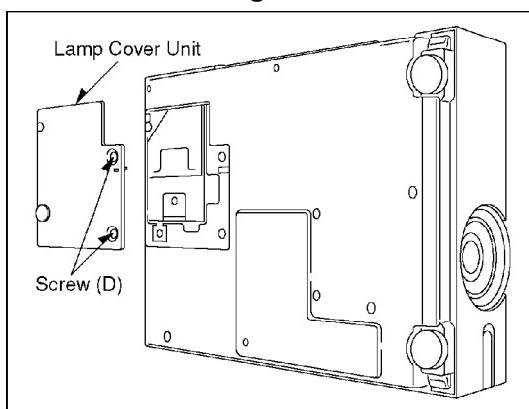
[Fig. 3-2-3](#)



3.2.2. Removal of the Lamp Cover Unit

1. Loosen 2 screws (D) as shown in [Fig. 3-2-4](#).

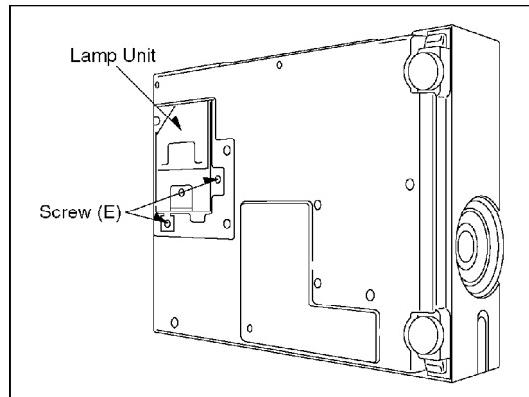
Fig. 3-2-4



3.2.3. Removal of the Lamp Unit

1. Loosen 2 screws (E) as shown in [Fig. 3-2-5](#).
 2. Hold the handle of the Lamp Unit and carefully pull it out.
- Caution:**
Do not touch the Lamp House, Lamp Unit, etc. until they have completely cooled off.

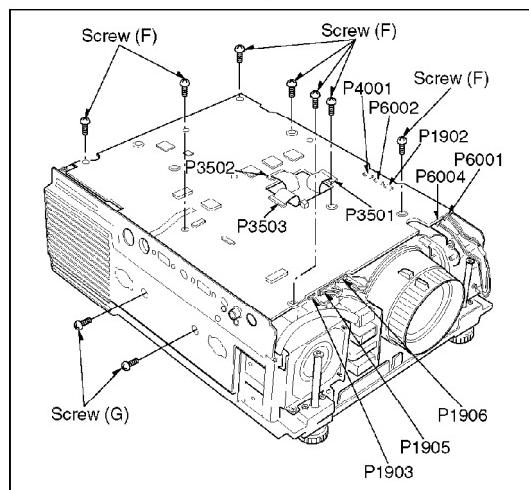
Fig. 3-2-5



3.2.4. Removal of the Main C.B.A.

1. Remove 7 screws (F) as shown in [Fig. 3-2-6](#).
2. Remove 2 screws (G).
3. Disconnect 11 connectors P1902, P1903, P1905, P1906, P4001, P6001, P6002, P6004, P3501, P3502, P3503 on the Main C.B.A.

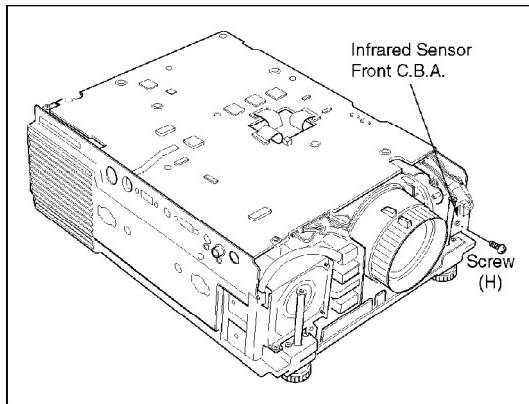
Fig. 3-2-6



3.2.5. Removal of the Infrared Sensor Front C.B.A.

1. Remove a screw (H) as shown in [Fig. 3-2-7](#).

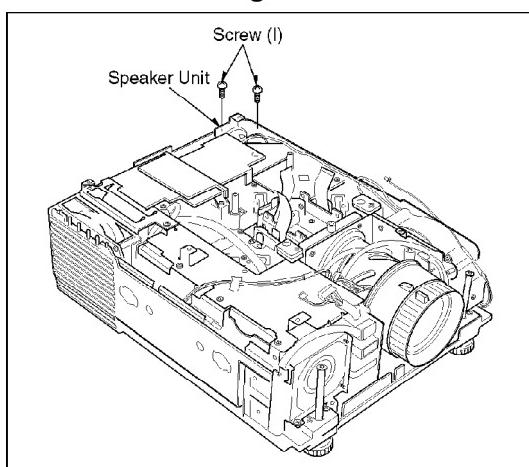
Fig. 3-2-7



3.2.6. Removal of the Speaker Unit

1. Remove 2 screws (I) as shown in [Fig. 3-2-8](#).

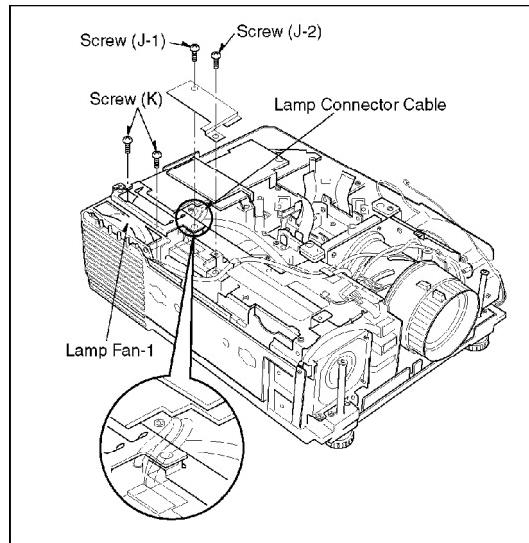
Fig. 3-2-8



3.2.7. Removal of the Lamp Fan-1

1. Remove a screw (J-1), a screw (J-2) and 2 screws (K) as shown in [Fig. 3-2-9](#).

Fig. 3-2-9



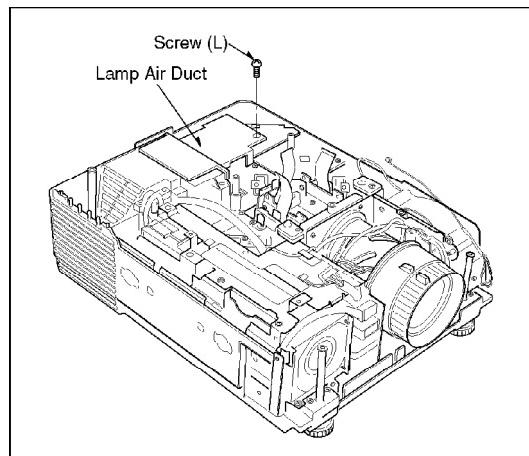
Assembly Note:

Make sure that the Lamp Connector Cable is in the original position as shown in [Fig. 3-2-9](#).

3.2.8. Removal of the Optical Block

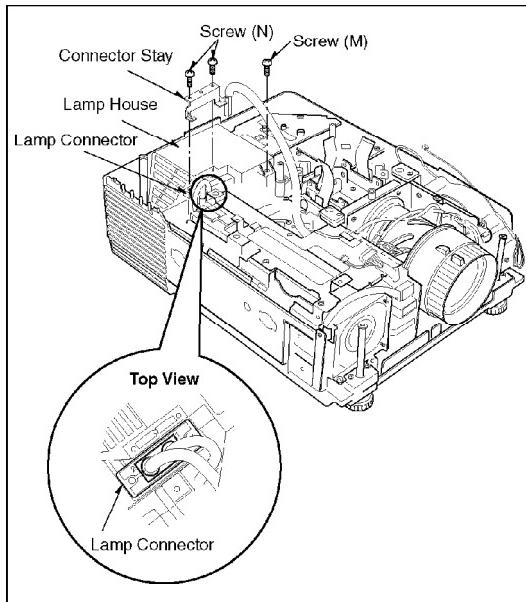
1. Remove a screw (L) as shown in [Fig. 3-2-10](#) and remove the Lamp Air Duct.

[Fig. 3-2-10](#)



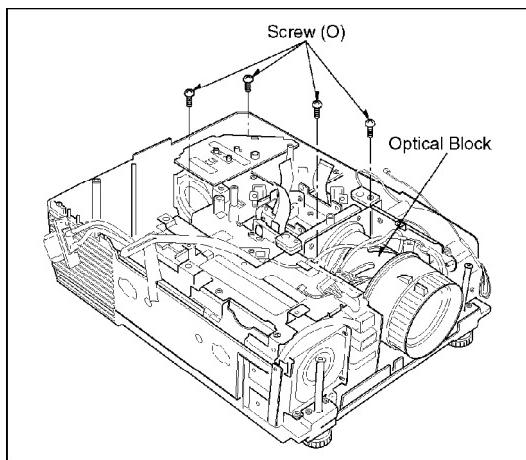
2. Remove a screw (M) and 2 screws (N) as shown in [Fig. 3-2-11](#) and remove the Connector stay, the Lamp Connector and the Lamp House.

[Fig. 3-2-11](#)



3. Remove 4 screws (O) as shown in [Fig. 3-2-12](#).

Fig. 3-2-12



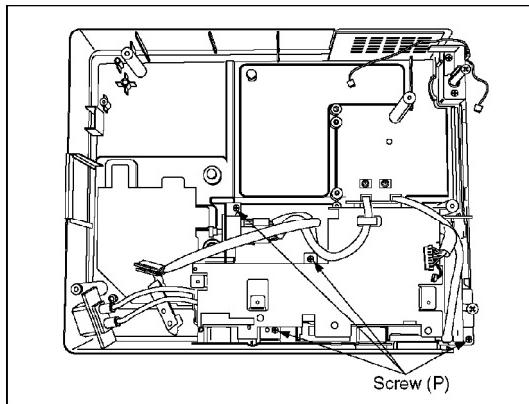
Assembly Note:

When installing the Lamp Connector and the Connector stay, insert the Lamp Connector in the direction shown in [Fig. 3-2-11](#).

3.2.9. Removal of the Power Ass'y

1. Remove 4 screws (P) as shown in [Fig. 3-2-13](#).

Fig. 3-2-13

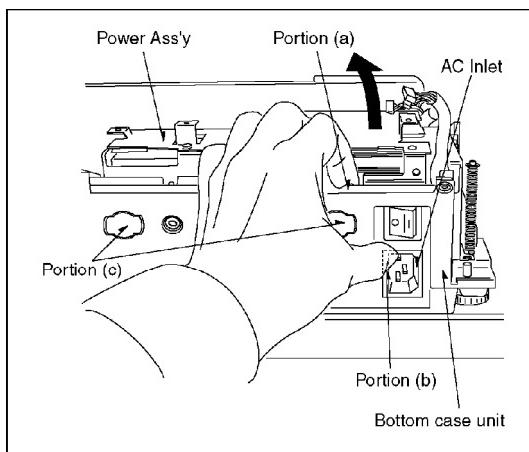


2. Pulling the Portion (a) of the Bottom Case Unit, press the Portion (b) on the AC Inlet, as shown in [Fig. 3-2-14](#), and release the Power Ass'y rotating in the direction of arrow and pull it upward.

Note:

Be careful when rotating the Power Ass'y so as not to damage the Portion (c).

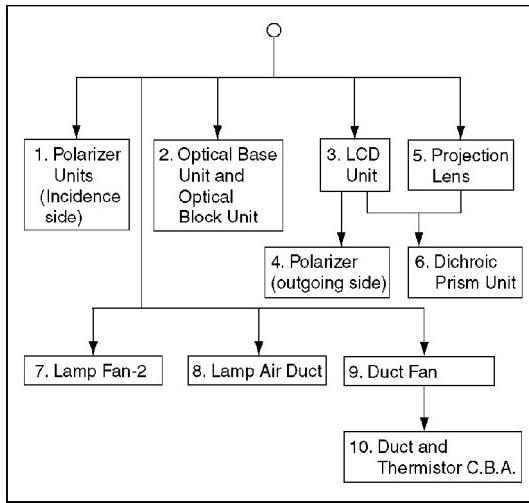
Fig. 3-2-14



3.3. DISASSEBLY FLOWCHART OF OPTICAL UNIT

This flowchart indicates the disassembly steps of the main parts of Optical Unit. When reassembling, perform the step(s) in the reverse order.

Fig. 3-3-1



3.4. DISASSEMBLY METHOD OF OPTICAL UNIT

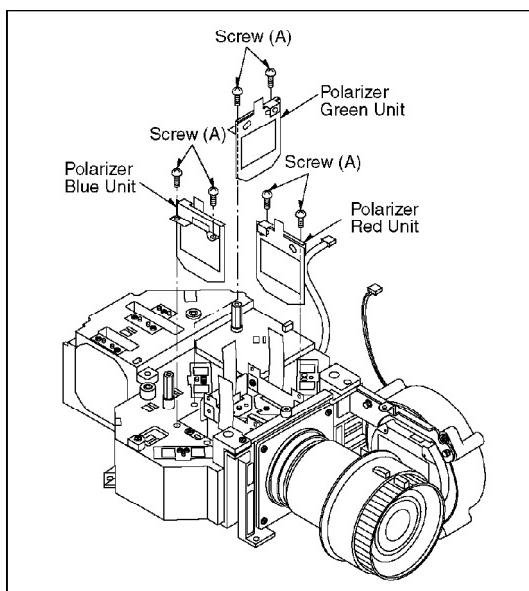
3.4.1. Removal of the Polarizer Units (Incidence side)

1. Remove 6 screws (A) to remove the Polarizer Red Unit, the Polarizer Green unit and the Polarizer Blue Unit as shown in **Fig. 3-4-1**.

Note:

1. Use extreme care not to damage the Polarizer Units, when servicing.
2. Make sure that no dust gets on the Polarizer Units. Clean the Polarizer Units with cleaning paper moistened with lens cleaner if necessary.

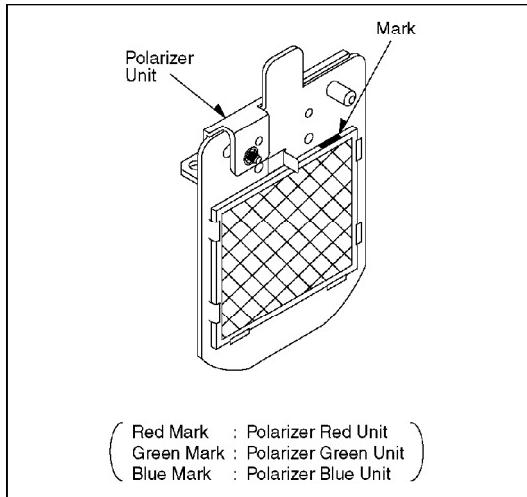
Fig. 3-4-1



Assembly Note:

- 1. After replacing the Polarizer Unit, Polarizer adjustment is necessary (Refer to 4.1. Initial Guide Line).**
- 2. Make sure of the Mark color to distinguish the Polarizer Units (Red, Green, Blue) as shown in [Fig. 3-4-2](#).**

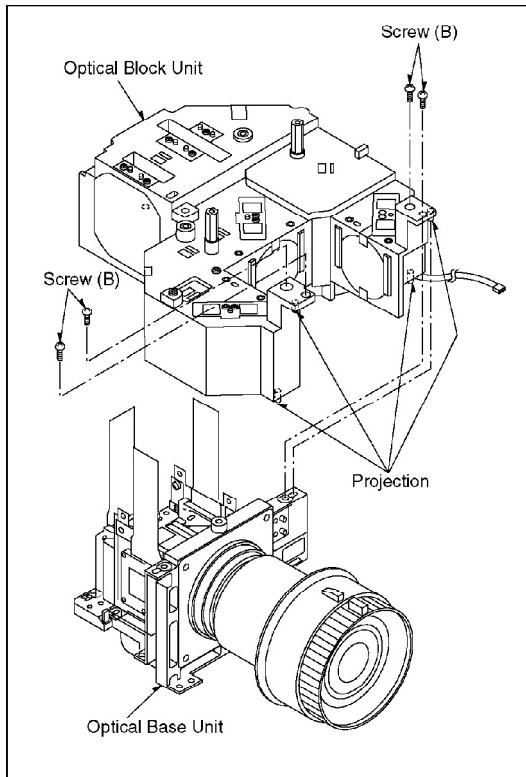
Fig. 3-4-2



3.4.2. Removal of the Optical Base Unit and Optical Block Unit

- 1. Remove 4 screws (B) as shown in [Fig. 3-4-3](#).**
- 2. Lift the Optical Block Unit up to release 4 projections.**

Fig. 3-4-3



3.4.3. Removal of the LCD Unit (RED/ GREEN/ BLUE)

- Removal of the LCD Green Unit

1. Remove 2 screws (C) and 2 washers (C) to remove the LCD Green Unit as shown in [Fig. 3-4-4](#).

- Removal of the LCD Red Unit

1. Remove 3 screws (D) and 3 washers (D) to remove the LCD Red Unit as shown in [Fig. 3-4-4](#).

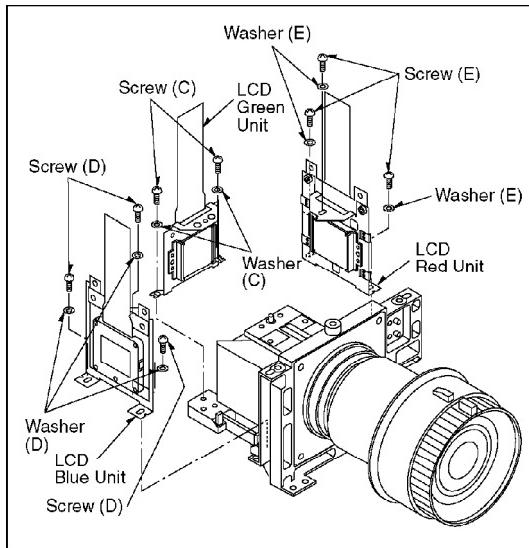
- Removal of the LCD Blue Unit

1. Remove 3 screws (E) and 3 washers (E) to remove the LCD Blue Unit as shown in [Fig. 3-4-4](#).

Note:

1. After replacing the LCD Unit, adjustment is necessary (Refer to 4.1. Initial Guide Line).
2. Make sure that no dust gets on the surface of the LCD and the Polarizer. Clean those surface with a cleaning paper moistened with lens cleaner if necessary.

Fig. 3-4-4



3. When removal of the LCD Unit, refer to following procedures.

- A. Remove the Top Cover Ass'y (Refer to 3.2.1. Removal of the Top Cover Ass'y).
- B. Remove the Main C.B.A. (Refer to 3.2.4. Removal of the Main C.B.A.).

Important Notes:

There are 2 types of LCD Panel for each color LCD Panel.

When replacing LCD Panel, the same type must be used.

To distinguish it, be sure to confirm the color of the printed character on the flexible cable and also confirm if it is enclosed by a frame line or not. And order the same type (refer to [Fig. 3-4-4-1](#)).

If wrong type of LCD Panel is used, a non-uniformity color will appear on the screen.

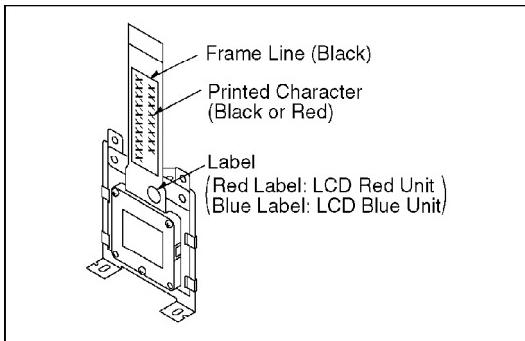
FOR THE PT-L759VU/PT-L759VE/PT-L1759V

LCD Unit	Part No.	Color of the printed Character	Color of label
LCD Red Unit	LSXA0385	Black	Red
	LSXA0386	Red or Black with a frame line	Red
LCD Green Unit	LSXA0385	Black	None
	LSXA0386	Red or Black with a frame line	None
LCD Blue Unit	LSXA0385	Black	Blue
	LSXA0386	Red or Black with a frame line	Blue

FOR THE PT-L759XU/PT-L759XE/PT-L1759X

LCD Unit	Part No.	Color of the printed Character	Color of label
LCD Red Unit	LSXA0389	Black	Red
	LSXA0393	Red or Black with a frame line	Red
LCD Green Unit	LSXA0390	Black	None
	LSXA0393	Red or Black with a frame line	None
LCD Blue Unit	LSXA0391	Black	Blue
	LSXA0393	Red or Black with a frame line	Blue

Fig. 3-4-4-1



3.4.4. Removal of the Polarizer (Outgoing side)

1. Remove 2 screws (E-1) to remove the Polarizer and the Polarizer Holder as shown in **Fig. 3-4-5**.

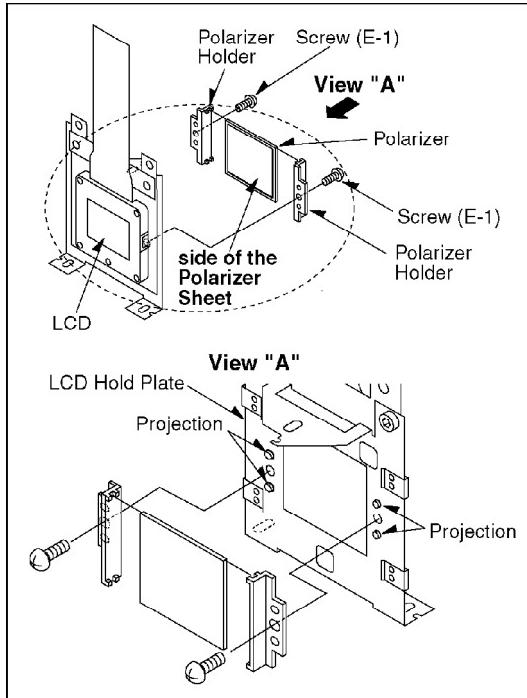
Note:

1. Part Name of each Polarizer

- PT-L759VU/VE/PT-1759V:
Polarizer Red/ Polarizer Green/ Polarizer Blue
- PT-L759XU/XE/PT-1759X:
Polarizer Red/ Sub Polarizer Green/ Sub Polarizer Blue

2. Use extreme care not to damage the Polarizer, when servicing.
3. Make sure that no dust gets on the surface of the LCD and the Polarizer. Clean those surface with a cleaning paper moistened with lens cleaner if necessary.

Fig. 3-4-5



Assembly Note:

- 1. After replacing the Polarizer, LCD convergence adjustment is necessary (Refer to 4.1. Initial Guide Line).**
- 2. The side of Polarizer Sheet should face to the LCD.**
- 3. Put the holes of Polarizer Holders into the projections of LCD Hold Plate so that the Polarizer dose not shake.**
- 4. The Polarizer should be held tight by the Polarizer Holders when installing in the LCD Hold Plate.**

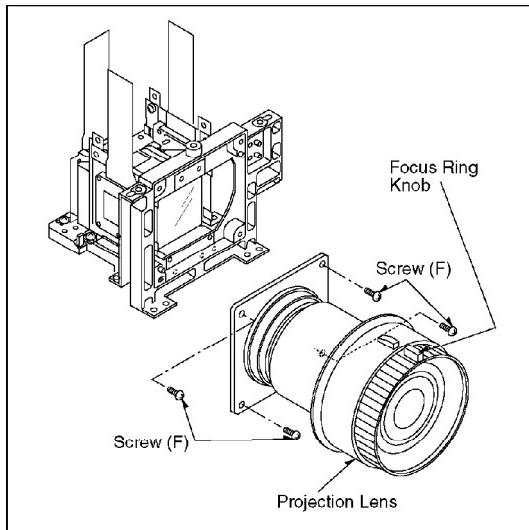
3.4.5. Removal of the Projection Lens

- 1. Remove 4 screws (F) to remove the Projection Lens as shown in Fig. 3-4-6.**

Note:

Make sure that no dust gets on the Projection Lens. Clean the Projection Lens with cleaning paper moistened with lens cleaner if necessary.
(Refer to 2.5. Cleaning the Projection Lens.)

Fig. 3-4-6



Assembly Note:

When assembling the Projection Lens, attach the Focus Ring Knob so that it faces upward.

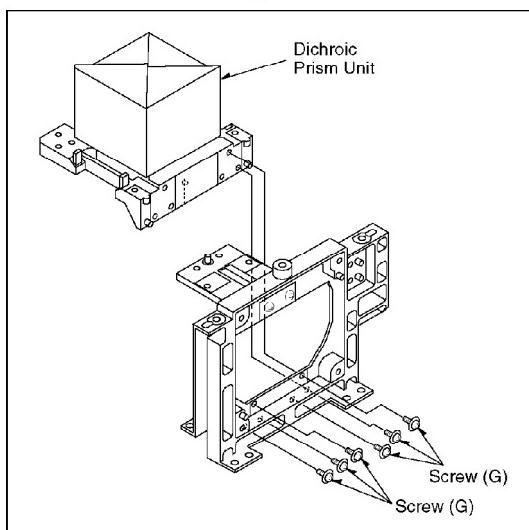
3.4.6. Removal of the Dichroic Prism Unit

1. 1. Remove 6 screws (G) to remove the Dichroic Prism Unit as shown in [Fig. 3-4-7](#).

Note:

Make sure that no dust gets on the Dichroic Prism Unit. Clean the Dichroic Prism Unit with cleaning paper moistened with lens cleaner if necessary.

Fig. 3-4-7

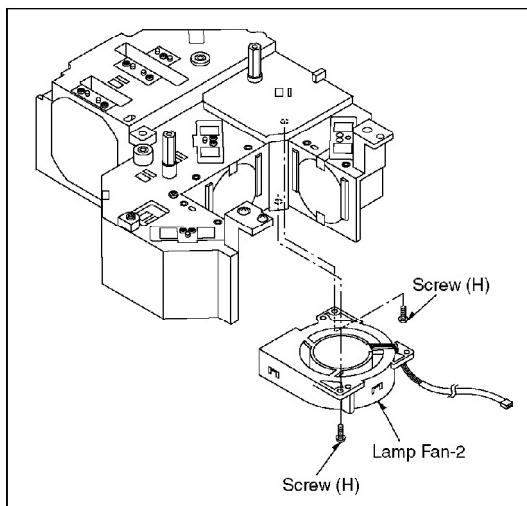


3.4.7. Removal of the Lamp Fan-2

1. Remove 2 screws (H) to remove the Lamp Fan-2 as shown in [Fig. 3](#)

-4-8.

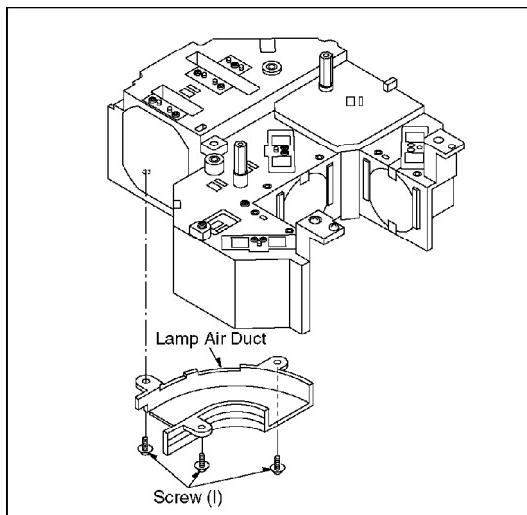
Fig. 3-4-8



3.4.8. Removal of the Lamp Air Duct

- 1. Remove 3 screws (I) to remove the Lamp Air Duct as shown in Fig. 3-4-9.**

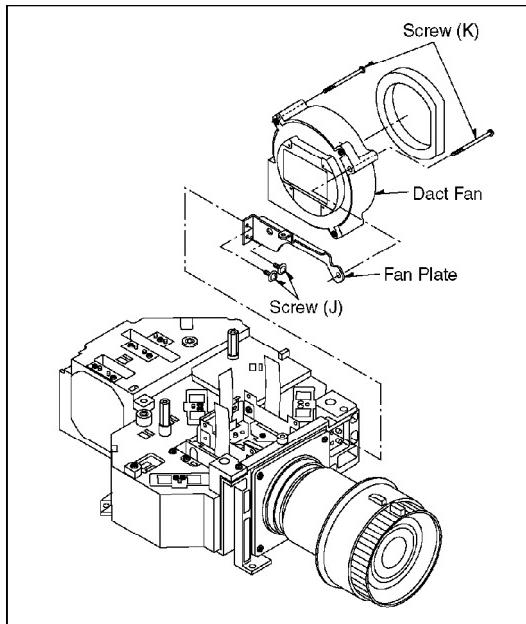
Fig. 3-4-9



3.4.9. Removal of the Duct Fan

- 1. Remove 2 screws (J) to remove the Duct Fan along with the Fan Plate as shown in Fig. 3-4-10.**
- 2. Remove 2 screws (K) to remove the Duct Fan from the Fan Plate.**

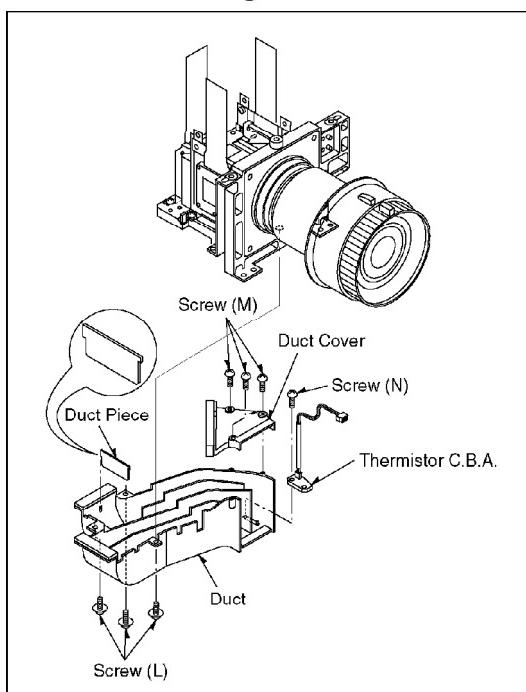
Fig. 3-4-10



3.4.10. Removal of the Duct and Thermistor C.B.A.

1. Remove 3 screws (L) to remove the Duct along with the Thermistor C.B.A as shown in [Fig. 3-4-11](#).
2. Remove 3 screws (M) to remove the Duct Cover.
3. Then remove a screw (N) to remove the thermistor C.B.A.

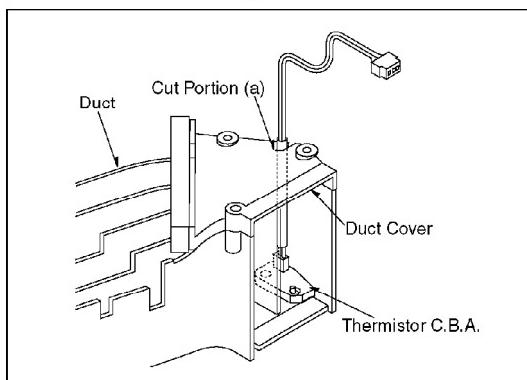
Fig. 3-4-11



Assembly Note:

- 1. Confirm the direction of the Duct Piece when installing it.**
- 2. Insert the lead wire of Thermistor C.B.A. in the cut portion (a) of the Duct Cover as shown in the [Fig. 3-4-12](#).**

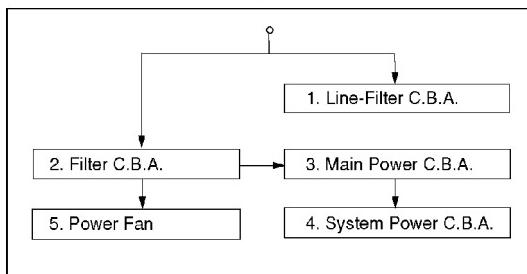
Fig. 3-4-12



3.5. DISASSEMBLY FLOWCHART OF POWER ASS'Y

This flowchart indicate the disassembly steps of the main parts of the main power ass'y. When reassembling, perform the step(s) in the reverse order.

Fig. 3-5-1

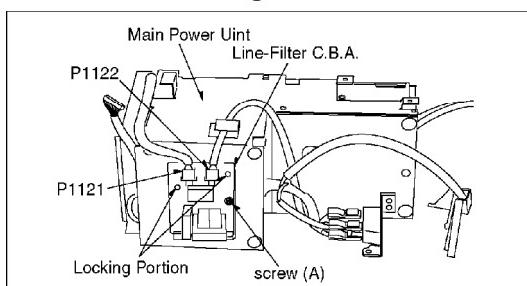


3.6. DISASSEMBLY METHOD OF POWER ASS'Y

3.6.1. Removal of the Line-Filter C.B.A.

- 1. Disconnect 2 connectors P1121 and P1122 as shown in [Fig. 3-6-1](#).**
- 2. Remove a screw (A).**
- 3. Release 2 Locking Portions to remove the Line-Filter C.B.A.**

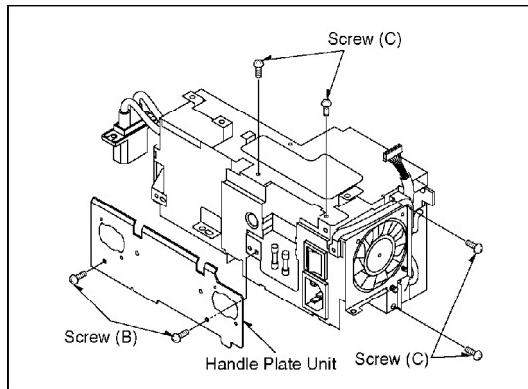
Fig. 3-6-1



3.6.2. Removal of the Filter C.B.A.

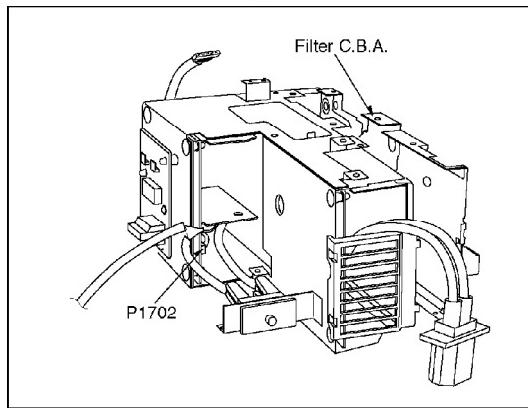
1. Remove 2 screws (B) and remove the Handle Plate Unit as shown in [Fig. 3-6-2](#).
2. Remove 4 screws (C).

[Fig. 3-6-2](#)



3. Disconnect connector P1702 to remove the Filter C.B.A. as shown in [Fig. 3-6-3](#).

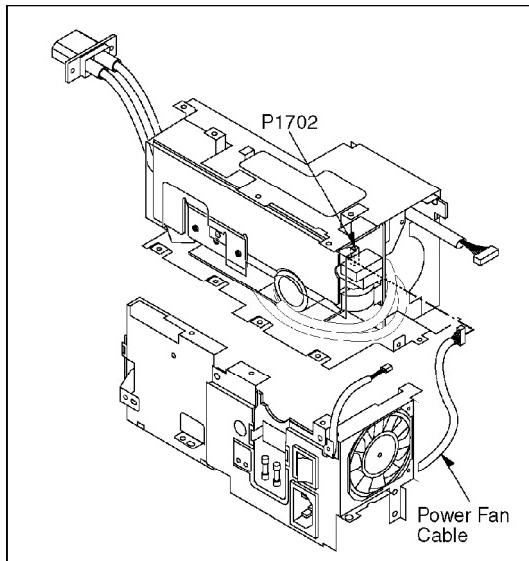
[Fig. 3-6-3](#)



Assembly Note:

Insert the Power Fan Cable as shown in [Fig. 3-6-4](#), and connect a connector P1702.

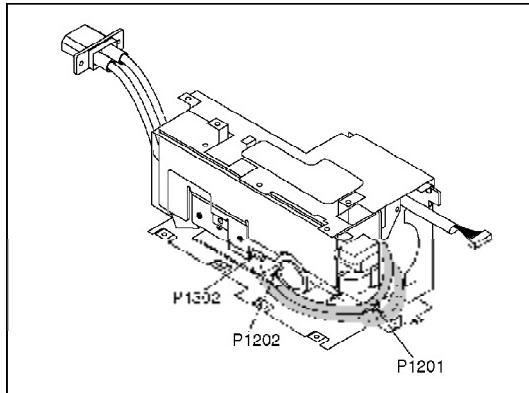
[Fig. 3-6-4](#)



3.6.3. Removal of the Main Power C.B.A.

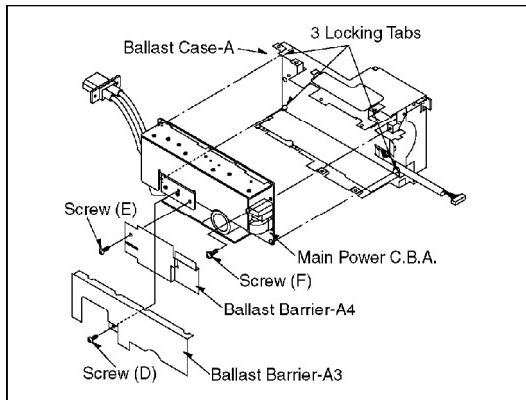
1. Disconnect connectors P1201, P1202, P1302 as shown in [Fig. 3-6-5](#).

Fig. 3-6-5



2. Remove a screw (D) to remove the Ballast Barrier-A3 as shown in [Fig. 3-6-6](#).
3. Remove a screw (E) to remove the Ballast Barrier-A4.
4. After remove a screw (F), release 3 Locking Tabs to remove the Main Power C.B.A. as shown in [Fig. 3-6-6](#).

Fig. 3-6-6



Assembly Note:

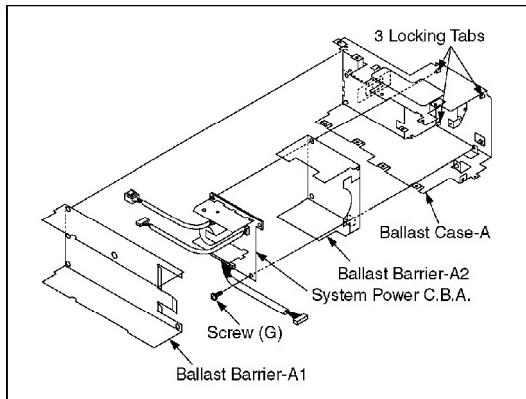
Make sure that all cables and leads are placed in their original position as shown in [Fig. 3-6-5](#).

3.6.4. Removal of the System Power C.B.A.

1. Remove the Ballast Barrier-A1.

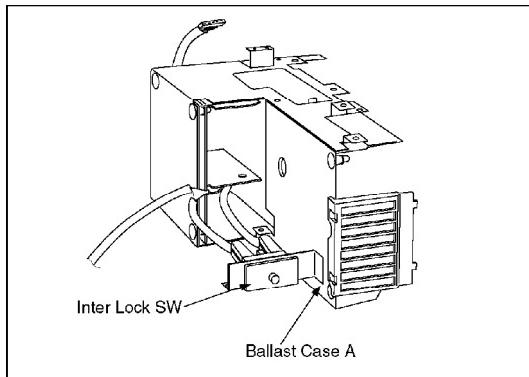
After remove a screw (G), unlock 3 Locking Tabs to remove the System Power C.B.A. as shown in [Fig. 3-6-7](#).

Fig. 3-6-7



2. Disconnect the cable (4 pins) from the terminal of Inter Lock SW as shown in [Fig. 3-6-8](#).

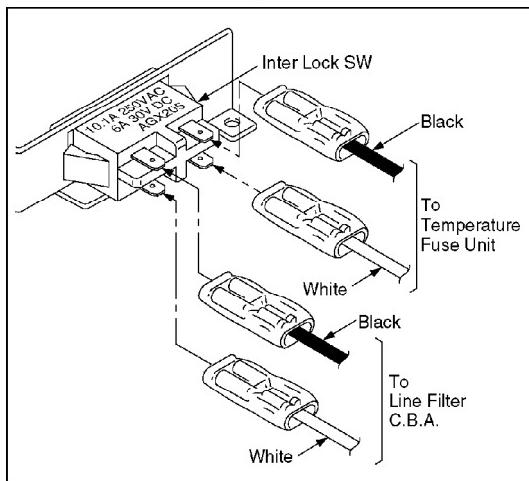
Fig. 3-6-8



Assembly Note:

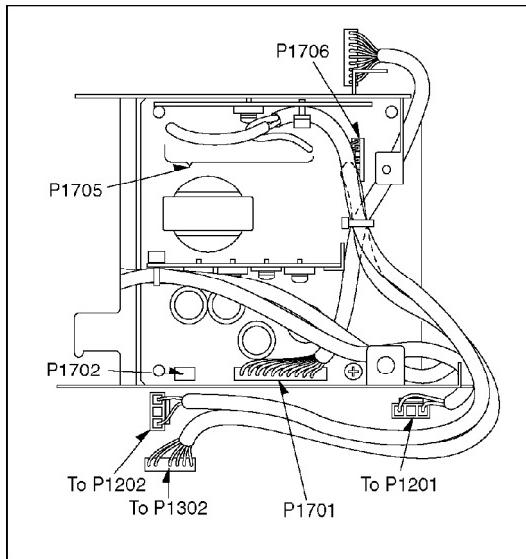
- 1. Insert the cable (4 pins) correctly to the terminal of Inter Lock SW as shown in [Fig. 3-6-9](#).**

Fig. 3-6-9



- 2. Make sure that all cables and leads are placed in their original position as shown in [Fig. 3-6-10](#).**

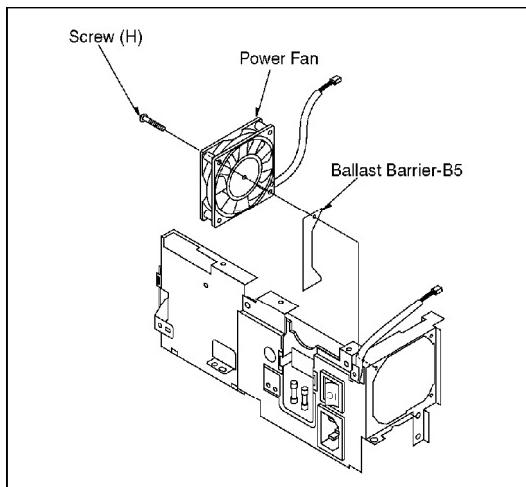
Fig. 3-6-10



3.6.5. Removal of the Power Fan

1. Remove a screws (H) to remove the Power Fan as shown in **Fig. 3-6-11.**

Fig. 3-6-11



4. ADJUSTMENT PROCEDURES

4.1. INITIAL GUIDE LINE

The tables below show adjustments which will be necessary according to the unit parts and optical parts to be replaced. Make sure to perform these adjustments shown below as necessary.

If you replace:	necessary Adjustments
MAIN C.B.A.	4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5
LCD GREEN UNIT	4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.6, 4.4.7, 4.4.8 4.4.9,
LCD RED UNIT	4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.7, 4.4.9
LCD BLUE UNIT	4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.8, 4.4.9
POLARIZER UNIT	4.4.10
POLARIZER	4.4.9
OPTICAL BLOCK UNIT	(4.4.4), (4.4.6), (4.4.7), (4.4.8), (4.4.9), 4.4.10, (4.4.11)

Adjustment Items		Mode
4.4.1	LCD COMMON ADJUSTMENT	Lcd/Fan Adjust
4.4.2	SIGNAL LEVEL ADJUSTMENT	Lcd/Fan Adjust
4.4.3	WHITE LEVEL ADJUSTMENT	Lcd/Fan Adjust
4.4.4	WHITE BALANCE ADJUSTMENT	Lcd/Fan Adjust
4.4.5	VERTICAL LINE ADJUSTMENT	Digital Adjust
4.4.6	GREEN FOCUS ADJUSTMENT	—
4.4.7	RED FOCUS ADJUSTMENT	—
4.4.8	BLUE FOCUS ADJUSTMENT	—
4.4.9	LCD CONVERGENCE ADJUSTMENT	—
4.4.10	POLARIZER ADJUSTMENT	—
4.4.11	FULL MIRROR ADJUSTMENT	—
4.4.12	DUCT FAN SPEED ADJUSTMENT	Lcd/Fan Adjust
4.4.13	LAMP FAN-1 SPEED ADJUSTMENT	Lcd/Fan Adjust
4.4.14	LCD POWER VOLTAGE ADJUSTMENT	Video/Rgb Adjust
4.4.15	RGB INPUT LEVEL ADJUSTMENT	Video/Rgb Adjust
4.4.16	VIDEO INPUT ADJUSTMENT	Video/Rgb Adjust
4.4.17	COMPONENT VIDEO OFFSET / ADJUSTMENT	Video/Rgb Adjust

Notes:

1. () : Items which need the confirmation when replaced.
2. LCD Green Unit is fixed for reference for convergence adjustment.
Adjust LCD Red Unit for R-G Convergence Adjustment. Adjust LCD Blue Unit for B-G Convergence Adjustment.

If you replace:	necessary Convergence Adjustment	
	R-G / Convergence / Adjustment	B-G / Convergence / Adjustment
LCD Green Unit	○	○
LCD Blue Unit		○
LCD Red Unit	○	

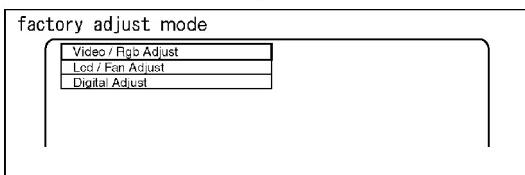
3. When any adjustments 4.4.1 through 4.4.4, 4.4.12 and 4.4.13 are necessary, please refer to “Preparation for Adjustments 4.4.1 through 4.4.4, 4.4.12 and 4.4.13”.
4. When an adjustment 4.4.5 is necessary, please refer to “Preparation for Adjustment 4.4.5”.
5. When any adjustments 4.4.14 through 4.4.17 are necessary, please refer to “Preparation for Adjustments 4.4.14 through 4.4.17”.
6. Polarizer unit: Incidence side
Polarizer: Outgoing side

4.1.1. The Factory Adjust Mode

All Electrical Adjustments are performed on the Factory Adjust Mode which is used remote control unit instead of variable resistor to control the adjustment value.

1. Connect a jumper wire between TP6014 and TP6015 on Main C.B.A. for over 5 seconds to enter the Factory Adjust Mode.
2. Press the remote control **▲** or **▼** to select and press **◀** or **▶** button to set the item to be adjusted.

Fig. 4-1-1



Note:

Do not adjust all items in “Digital Adjust” mode (except POCK and POCK1), and GAMMA R, G and B in “Lcd/Fan Adjust” mode, and DVCO, TINT and COLOR in “Video/Rgb Adjust” mode.

Fig. 4-1-2

The figure consists of three vertically stacked tables, each representing a different mode of adjustment. Each table has a header and a list of parameters with their current values. Annotations with arrows point to specific entries in each table, indicating they should not be adjusted.

「Video / Rgb Adjust」 mode

15.3V	179
R BRIGHT	139
R LEVEL	88
G BRIGHT	138
G LEVEL	93
B BRIGHT	140
B LEVEL	90
DVCO	600
VIDEO BRIGHT	0
VIDEO LEVEL	71
TINT	0
COLOR	+128
PR-OFFSET	41
PB-OFFSET	40

「Lcd / Fan Adjust」 mode

VCOM R	150
VCOM G	150
VCOM B	150
BLACK LEVEL	128
WHITE FVFI	180
CUTOFF R	128
DRIVE R	128
CUTOFF B	128
DRIVE B	128
GAMMA R	3
GAMMA G	3
GAMMA B	1
FAN1 SPEED	171
FAN2 SPEED	240

「Digital Adjust」 mode

ENABL	22
POCK	3
POCK1	3
POHD	5
POVD	5
POFD	5
CCKD	4
CHSD	4
CVSD	4
PIFD	0
PIVD	0
PIHD	0
PISEL	6
AD05	58
AD06	83
AD06YP	83

4.1.2. After adjustment

After completing adjustments;

Press the MENU button to release from the Factory Adjust mode. (The factory adjust mode screen shown in [Fig. 4-1-1](#) disappears.) / Then, press the POWER button on remote control once.

While "Please press POWER button again to power off." is displayed, press the POWER button on remote control to power off.

Then, all adjustment data is memorized in EEPROM IC's (IC6009, IC6010).

Note:

Do not turn off the Main Power SW before doing above. / Otherwise, all adjustment data will be cancelled.

4.2. TEST EQUIPMENT

To do all of these adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

Voltage Range : 0.001~50 V/Div.

Frequency Range : DC~50 MHz

Probes : 10:1, 1:1

2. NTSC Video Pattern Generator

3. Plastic Tip Driver and Non-Metal Driver

4. (+) Screwdriver and (-) Screwdriver

5. Hexagon Wrench (2.5 mm)

6. Standard Screen

7. DVM (Digital Volt Meter)

8. Luminance Color Meter

9. Programmable Video Signal Generator

10. Test pattern signal (not supplied)

11. Jumper Wire

4.3. HOW TO READ THE ADJUSTMENT PROCEDURES

Fig. 4-3-1

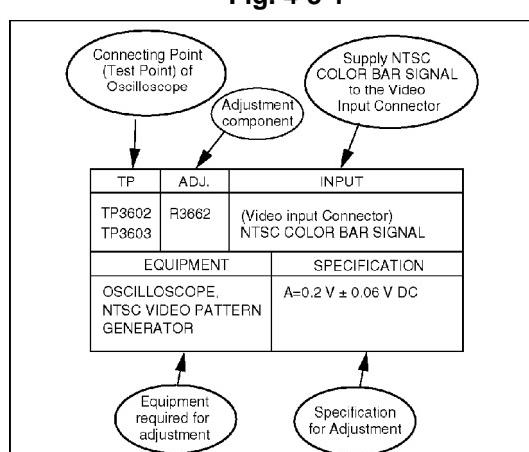
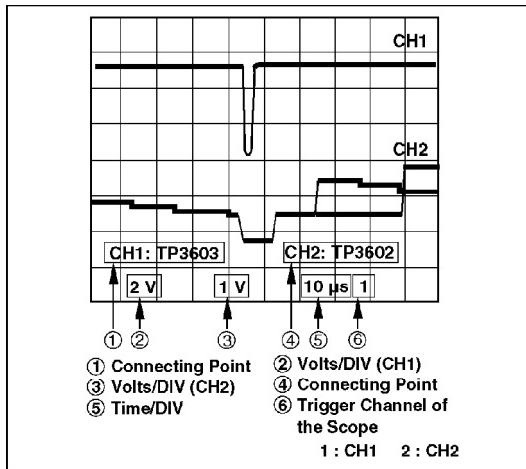


Fig. 4-3-2



4.4. ADJUSTMENT PROCEDURES

Preparation for Adjustments 4.4.1 through 4.4.4, 4.4.12 and 4.4.13

1. Connect a jumper wire between TP6014 and TP6015 on Main C.B.A. for over 5 seconds to set to the Factory Adjust Mode.
2. Press **▲** or **▼** button on remote control to select “Lcd/Fan Adjust” mode, and press **◀** or **▶** button to set to “Lcd/Fan Adjust” mode.

Fig. 4-4-1

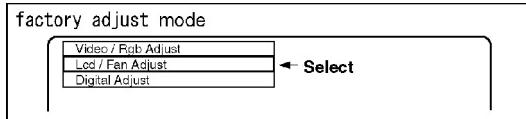
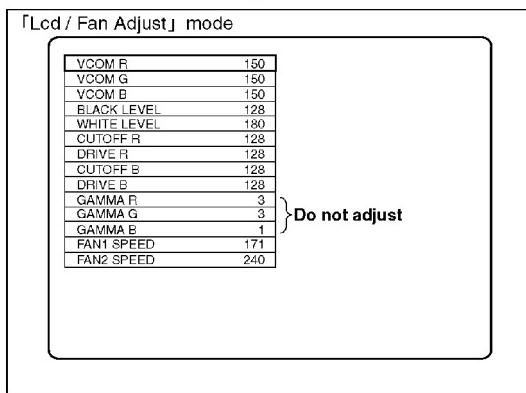


Fig. 4-4-2



3. After completing adjustments 4.4.1 through 4.4.4, 4.4.12 and 4.4.13, press the “ MENU” button to release from “Lcd/Fan Adjust” mode.

Preparation for Adjustment 4.4.5

1. Connect a jumper wire between TP6014 and TP6015 on Main

C.B.A. for over 5 seconds to set to the Factory Adjust Mode.

2. Press **▲** or **▼** button on remote control to select “Digital Adjust” mode, and press **◀** or **▶** button to set to “Digital Adjust” mode.

Fig. 4-4-3

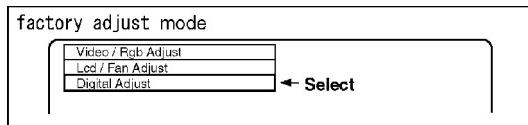
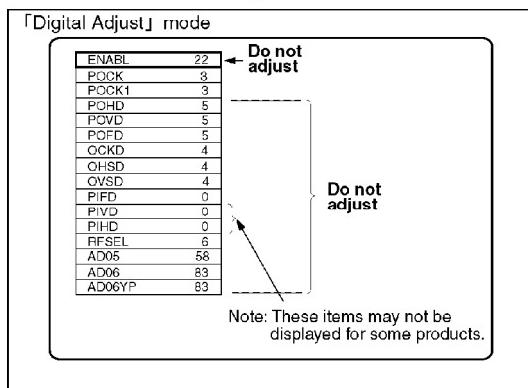


Fig. 4-4-4



3. After completing adjustments 4.4.5, press the “MENU” button to release from “Digital Adjust” mode.

Preparation for Adjustments 4.4.14 through 4.4.17

1. Connect a jumper wire between TP6014 and TP6015 on Main C.B.A. for over 5 seconds to set to the Factory Adjust Mode.
2. Press **▲** or **▼** button on remote control to select “Video/Rgb Adjust” mode, and press **◀** or **▶** button to set to “Video/Rgb Adjust” mode.

Fig. 4-4-5

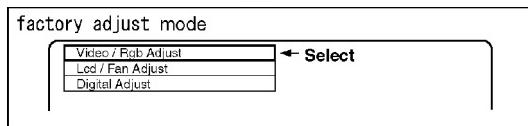


Fig. 4-4-6

「Video / Rgb Adjust」 mode	
Do not adjust →	15.3V 180
Do not adjust ↘	R BRIGHT 128
	R LEVEL 85
	G BRIGHT 128
	G LEVEL 85
	B BRIGHT 128
	B LEVEL 85
	DVCO - 600
	VIDEO BRIGHT +2
	VIDEO LEVEL 52
	TINT 0
	COLOR +194
	FR-OFFSET 128
	PB-OFFSET 128

3. After completing adjustments 4.4.14 through 4.4.17, press the “MENU” button to release from “Video/Rgb Adjust” mode.

After completing adjustments;

Press the MENU button to release from the Factory Adjust mode. (The factory adjust mode screen shown in [Fig. 4-4-3](#) disappears.) / Then, press the POWER button on remote control once.

While "Please press POWER button again to power off." is displayed, press the POWER button on remote control to power off.

Then, all adjustment data is memorized in EEPROM IC's (IC6009, IC6010).

Note:

Do not turn off the Main Power SW before doing above. / Otherwise, all adjustment data will be cancelled.

4.4.1. LCD COMMON ADJUSTMENT

Purpose:

To set the optimum LCD common voltage.

Symptom of Misadjustment:

The picture will be bluish or reddish.

TP	ADJ.	INPUT
		(RGB1 Input Connector) 70 % Red Horizontal Signal 70 % Green Horizontal Signal 70 % Blue Horizontal Signal
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

Note:

This adjustment should be done in a darkroom.

- 1. Connect the Personal Computer to the RGB1 IN with the VGA cable.**
- 2. Supply 70 % Red Horizontal Signal and project on the screen.**
- 3. Press \blacktriangle or \blacktriangledown button on remote control to select “VCOM R”.**
- 4. Press \blacktriangleleft or \blacktriangleright button so that the flicker on the whole screen becomes minimal.**
- 5. Supply 70 % Green Horizontal Signal and project on the screen.**
- 6. Press \blacktriangle or \blacktriangledown button on remote control to select “VCOM G”.**
- 7. Press \blacktriangleleft or \blacktriangleright button so that the flicker on the whole screen becomes minimal.**
- 8. Supply 70 % Blue Horizontal Signal and project on the screen.**
- 9. Press \blacktriangle or \blacktriangledown button remote control to select “VCOM B”.**
- 10. Press \blacktriangleleft or \blacktriangleright button so that the flicker on the whole screen becomes minimal.**

Note:

When the flicker is hard to see in the screen in step 2, 5, 8, press \blacktriangle or \blacktriangledown button on remote control to select “BLACK LEVEL”, and press \blacktriangleleft or \blacktriangleright button so that it appears. However, be sure to return “BLACK LEVEL” to previous value after LCD COMMON adjustment.

4.4.2. SIGNAL LEVEL ADJUSTMENT

Purpose:

To set the optimum signal level.

Symptom of Misadjustment:

The picture will be too light or too dark.

TP	ADJ.	INPUT
TP3504 TP3505 TP3506		(RGB1 Input Connector) GRAY SCALE PATTERN SIGNAL (3 SCALE)
EQUIPMENT		SPECIFICATION
OSCILLOSCOPE TEST PATTERN SIGNAL		WHITE LEVEL: $A=3.8 V \pm 0.05 V [p-p]$ DRIVE R, DRIVE B: $A=3.5 V \pm 0.05 V [p-p]$

Note:

TP3504,TP3505,TP3506: Main C.B.A.

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Gray Scale Pattern Signal (3 scales).
3. Connect the oscilloscope to TP3505.
4. Press Δ or ∇ button on remote control to select “WHITE LEVEL”.
5. Confirm that level A is $3.8 V \pm 0.05 V [p-p]$.
6. If out of the specification, press \blacktriangleleft or \triangleright button so that level A becomes $3.8 V \pm 0.05 V [p-p]$.
7. Connect the oscilloscope to TP3504.
8. Press Δ or ∇ button on remote control to select “DRIVE R”.
9. Confirm that level A is $3.5 V \pm 0.05 V [p-p]$.
10. If out of the specification, press \blacktriangleleft or \triangleright button so that level A becomes $3.5 V \pm 0.05 V [p-p]$.
11. Connect the oscilloscope to TP3506.
12. Press Δ or ∇ button on remote control to select “DRIVE B”.
13. Confirm that level A is $3.5 V \pm 0.05 V [p-p]$.
14. If out of the specification, press \blacktriangleleft or \triangleright button so that level A becomes $3.5 V \pm 0.05 V [p-p]$.

Note:

- Adjust “WHITE LEVEL” first, because “DRIVE R” and ”DRIVE B” work together with WHITE LEVEL.
- Readjust “DRIVE R” and ”DRIVE B” when “WHITE LEVEL” is readjusted.

Fig. 4-4-7

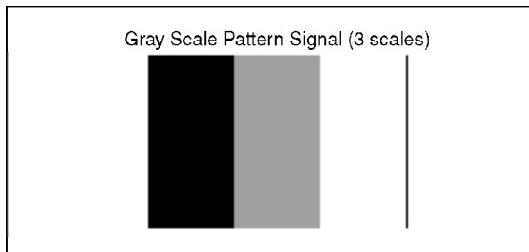
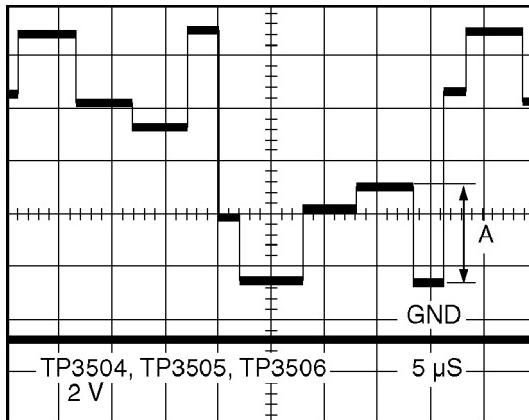


Fig. 4-4-8



4.4.3. WHITE LEVEL ADJUSTMENT

Purpose:

To set the optimum signal level.

Symptom of Misadjustment:

The picture will be too light or too dark.

TP	ADJ.	INPUT
		(RGB1 Input Connector) GREEN LEVEL ADJUSTMENT SIGNAL
EQUIPMENT		SPECIFICATION
	TEST PATTERN SIGNAL	Refer to Description below

Note:

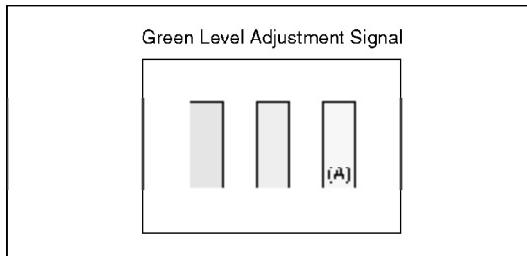
This adjustment should be done in a darkroom.

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Green Level Adjustment Signal and project on the screen.
3. Press ▲ or ▼ button on remote control to select “BLACK”

LEVEL".

4. Press **◀** or **▶** button so that Portion (A) is barely visible on the screen.

Fig. 4-4-9



4.4.4. WHITE BALANCE ADJUSTMENT

Purpose:

To set the standard white level for each color temperature.

Symptom of Misadjustment:

White will become bluish or reddish.

This adjustment should be done in a darkroom.

4.4.4.1. Rough Adjustment

TP	ADJ.	INPUT
		(VIDEO Input Connector) GRAY SCALE PATTERN SIGNAL (10 scales)
EQUIPMENT		SPECIFICATION
NTSC VIDEO PATTERN GENERATOR		Refer to Description below

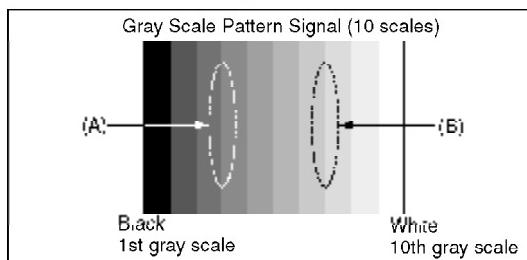
Note:

This adjustment should be done in a darkroom.

1. Connect the NTSC Video Pattern Generator to the VIDEO IN.
2. Supply Gray Scale Pattern Signal (10 scales) and Project on the screen.
3. Press **▲** or **▼** button on remote control to select "CUTOFF R" or "CUTOFF B".
4. Press **◀** or **▶** button to adjust "CUTOFF R" or "CUTOFF B" so that the area around 3rd and 4th scale (A) becomes pure gray with no red or blue tint.

5. Press **▲** or **▼** button on remote control to select “DRIVE R” or “DRIVE B”.
6. Press **◀** or **▶** button to adjust “DRIVE R” or “DRIVE B” so that the area around 7th and 8th scale (B) becomes pure gray with no red or blue tint.
7. Repeat step 3 through 6 so that all the scales become pure gray with no red or blue tint.

Fig. 4-4-10



4.4.4.2. Fine Adjustment

TP	ADJ.	INPUT
		(RGB1 Input Connector) 50 % White Pattern Signal 95 % White Pattern Signal 100 % White Pattern Signal
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL LUMINANCE COLOR METER		Refer to Description below

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply 50 % White Pattern Signal and project on the screen.
3. Press **▲** or **▼** button on remote control to select “CUTOFF R” or “CUTOFF B”.
4. Adjust “CUTOFF R” or “CUTOFF B” by pressing **◀** or **▶** button so that color temperature(K) and its deviation (uv) at the center of the screen are 8500 K to 10500 K (Center 9500 K), and 0.009 uv to 0.017 uv (Center 0.012 uv) respectively by Luminance Color Meter.
5. Supply 100 % White Pattern Signal and project on the screen.
6. Measure the center of the screen by Luminance Color Meter.
7. Supply 95 % White Pattern Signal and project on the screen.

- 8. By measuring the center of the screen with Luminance color meter, confirm that 100 % White Pattern Signal color temperature (K) and its deviation (uv) measured in step 6 are + 0 K to 500 K, and - 0.005 uv to + 0 uv.**
- 9. If out of the specification, adjust “DRIVE R” or “DRIVE B” by pressing  or  button.**
- 10. Repeat steps 2 through 9 so that the temperature data of 50 % White Pattern Signal and 95 % White Pattern Signal are within the specification.**

Note:

After completing adjustments, press the “ MENU” button to release from “Lcd/Fan Adjust” mode.

4.4.5. VERTICAL LINE ADJUSTMENT

Purpose:

To set the vertical line to the minimal.

Symptom of Misadjustment:

The vertical line will appears.

4.4.5.1. For early products (without VR3509) for all model

TP	ADJ.	INPUT
		(RGB1 Input Connector) GRAY SPIRAL CIRCLE PATTERN SIGNAL (32 grades)
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

- 1. Connect the Personal Computer to the RGB1 IN with the VGA cable.**
- 2. Supply Gray Spiral Circle Pattern Signal and project on the screen.**
- 3. Press  or  button on remote control to select “POCK”.
(Display right and left reversely)**
- 4. Press  or  button so that the vertical line on the whole screen**

becomes minimal. / (Select from 2, 3 and 4 in adjustmentrange)

Fig. 4-4-11



5. Press **▲** or **▼** button on remote control to select “POCK1”.
(Normal display)
6. Press **◀** or **▶** button so that the vertical line on the whole screen becomes minimal. / **(Select from 2, 3 and 4 in adjustmentrange)**
7. After adjustment, confirm that the characters of OSD are displayed normally.

Fig. 4-4-12



4.4.5.2. For later products (with VR3509)

VR3509 has been added on running change basis.

4.4.5.2.1. For PT-L759VU/VE/PT-L1759V

TP	ADJ.	INPUT
	VR3509	(RGB1 Input Connector) PHASE.G.R.G.B. SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

Note:

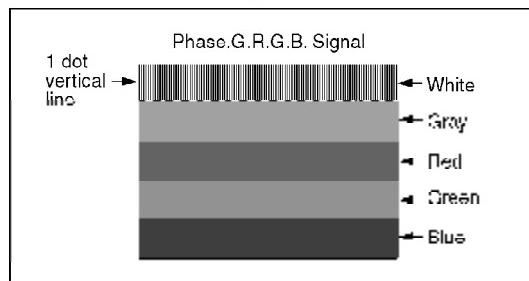
- VR3509: Main C.B.A.
- For Phase.G.R.G.B. signal, select “/ Phase.G.R.G.B.” in “1 color” of Test Pattern signal.

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Phase.G.R.G.B. Signal and project on the screen.
3. Press **▲** or **▼** button on remote control to select “POCK”.
(Display right and left reversely)
4. Press **◀** or **▶** button so that 12 dot interval vertical lines of red and blue become minimal. / (Select from 2, 3 and 4 inadjustment range)
5. Adjust VR3509 so that 1 dot vertical line (white area of Phase.G.R.G.B. signal) become magenta.
Then, adjust VR3509 by turning the left so that 12 dot interval vertical lines of green and gray areas of this signal become minimal, and moreover, 1 dot vertical line (white area) is displayed normally.

Tips for adjustment:

1 dot vertical lines (white area) become magenta when VR3509 is turned the left. / When VR3509 is turned the left further, this area become normal. However, 12 dot interval vertical lines appear in the green and gray area. / Adjust VR3509 so that 12 dot interval vertical lines of green and gray area become minimal, and moreover, 1 dot vertical line (white area) is displayed normally.

Fig. 4-4-13



6. Confirm that the DC voltage for the variable terminal of VR3509 is between 2.9 V and 5 V.



7. Press **▲** or **▼** button on remote control to select “POCK1”.
(Normal display)

8. Press **◀** or **▶** button so that all 12 dot interval vertical lines (red, blue, green and gray) become minimal. / (Select from 2, 3 and 4 in adjustment range)

After the adjustment, 1 dot vertical line (white) should be displayed normally.

4.4.5.2.2. METHOD 1 (Fine adjustment): / for PT-L759XU/XE/PT-L1759X

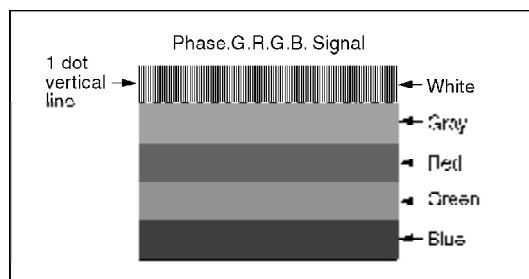
TP	ADJ.	INPUT
	VR3509	(RGB1 Input Connector) (DVI-D Connector) PHASE.G.R.G.B. SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

Note:

- VR3509: Main C.B.A.
- For Phase.G.R.G.B. signal, select “/ Phase.G.R.G.B.” in “1 color” of Test Pattern signal.

1. Connect the DVI-D Personal Computer to the RGB1 IN with the VGA cable.
2. Connect the DVI-D Personal Computer to the DVI-D with the DVI cable.
3. Supply Phase.R.G.B. Signal by the RGB1 mode and project on the screen.
4. Press **▲** or **▼** button on remote control to select “POCK”. (Display right and left reversely)
5. Press **◀** or **▶** button so that 12 dot interval vertical lines of red and blue became minimal. / (Select from 2, 3 and 4 in adjustment range)

Fig. 4-4-14-1



- 6. Press \blacktriangle or \blacktriangledown button on remote control to select “POCK1”.
(Normal display)**
- 7. Press \blacktriangleleft or \blacktriangleright button so that 12 dot interval vertical lines (red, blue, green and gray) become minimal. / (Select from 2, 3 and 4 in adjustment range)
After the adjustment, confirm that 1 dot vertical line (white) is displayed normally.**
- 8. Press MENU button to release from Factory Adjust Mode.**
- 9. Press INPUT button to set to DVI mode.**
- 10. Supply Phase.G.R.G.B. Signal by the DVI-D mode and project on the screen. (Normal display)**
- 11. Confirm that all 12 dot interval vertical lines (red, blue, green, gray) is minimal; and besides 1dot vertical line (white) is displayed normally.**
- 12. In user MENU, display right and left reversely.
 - A. Press MENU button to display the menu.**
 - B. Press \blacktriangle or \blacktriangledown button on remote control to select “Function”, and then ENTER to display the screen.**
 - C. Press \blacktriangle or \blacktriangledown button on remote control to select “Projection Mode”, and then ENTER to display the screen.**
 - D. Press \blacktriangleleft or \blacktriangleright button on remote control to select projection mode 2 (Right and Left displays in reverse).**
 - E. Press MENU button to remove the setup screen and menu.****
- 13. Confirm that the 12 dot interval vertical lines of red and blue is minimal.**
- 14. Adjust VR3509 so that 1 dot vertical line (white area) become magenta.**
- 15. Adjust VR3509 by turning the left so that the 12 dot interval vertical lines of green and gray become minimal, and moreover, 1 dot vertical line (white) is displayed normally.**

Tips for adjustment:

1 dot vertical lines (white area) become magenta when VR3509 is turned the left. / When VR3509 is turned the left further, this area become normal. However, 12 dot interval vertical lines appear in the green and gray area. / Adjust VR3509 so that 12 dot interval vertical lines of green and

gray area become minimal, and moreover, 1 dot vertical line (white area) is displayed normally.

16. Confirm that the DC voltage for the variable terminal of VR3509 is between 2.9 V and 5 V.



Adjustment Note:

If Personal Computer for DVI-D is unavailable for this adjustment, the adjustment of Method 2 can be done as a simple method. However, for fine adjustment, the adjustment of Method 1 should be done by using Personal Computer for DVI-D.

4.4.5.2.3. METHOD 2 (Rough adjustment): / for PT-L759XU/XE/PT-L1759X

TP	ADJ.	INPUT
		(RGB1 Input Connector) PHASE.G.R.G.B. SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

Note:

- VR3509: Main C.B.A.
- For Phase.G.R.G.B. signal, select “/ Phase.G.R.G.B.” in “1 color” of Test Pattern signal.

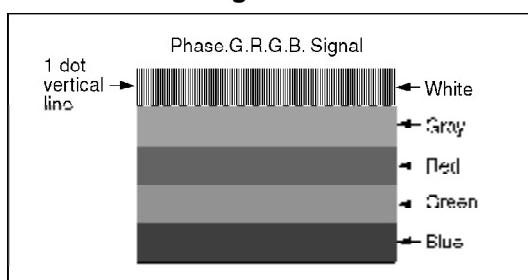
1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Phase.G.R.G.B. Signal and project on the screen.
3. Press ▲ or ▼ button on remote control to select “POCK”. (Display right and left reversely)
4. Press ◀ or ▶ button so that 12 dot interval vertical lines of red and blue become minimal. / (Select from 2, 3 and 4 inadjustment range)
5. Adjust VR3509 so that 1 dot vertical line (white area of Phase.G.R.G.B. signal) become magenta.

Then, adjust VR3509 by turning the left so that 12 dot interval vertical lines of green and gray areas of this signal become minimal, and moreover, 1 dot vertical line (white area) is displayed normally.

Tips for adjustment:

1 dot vertical lines (white area) become magenta when VR3509 is turned the left. / When VR3509 is turned the left further, this area become normal. However, 12 dot interval vertical lines appear in the green and gray area. / Adjust VR3509 so that 12 dot interval vertical lines of green and gray area become minimal, and moreover, 1 dot vertical line (white area) is displayed normally.

Fig. 4-4-14-2



- 6. Confirm that the DC voltage for the variable terminal of VR3509 is between 2.9 V and 5 V.**



- 7. Press ▲ or ▼ button on remote control to select “POCK1”.
(Normal display)**

- 8. Press ◀ or ▶ button so that all 12 dot interval vertical lines (red, blue, green and gray) become minimal. / (Select from 2, 3 and 4 in adjustment range)**

After the adjustment, 1 dot vertical line (white) should be displayed normally.

Note:

After completing adjustments, press the “ MENU” button to release from “Digital Adjust” mode.

4.4.6. GREEN FOCUS ADJUSTMENT

Purpose:

To set the focus over the whole screen.

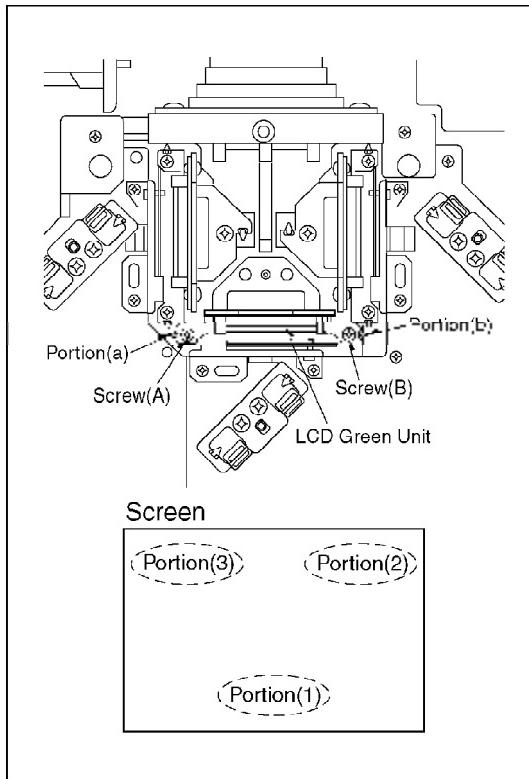
Symptom of Misadjustment:

The picture will be out of focus.

TP	ADJ.	INPUT
	LCD GREEN UNIT	(RGB1 Input Connector) GREEN CROSSHATCH PATTERN SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Green crosshatch pattern signal and Project on the screen.
3. Rotate the focus ring so that the whole screen is in focus.
4. Rotate the zoom ring on the projection lens to the wide setting.
5. Rotate the focus ring and adjust the focus on the lower center of the screen (Portion (1)).
6. Loosen screws (A) and (B) of LCD Green Unit.
7. Insert a (-) screwdriver into Portion (a) and twist it to adjust the focus on the upper right portion of the screen (Portion (2)).
After the adjustment, tighten screw (A) slightly.
8. Insert a (-) screwdriver into Portion (b) and twist it to adjust the focus on the upper left portion of the screen (Portion (3)).
After the adjustment, tighten screw (B) slightly.
9. Confirm that the lower center portion of the screen (Portion (1)) is in focus. If it is out of focus, repeat steps 5 through 8.
10. Confirm that the whole screen is in focus, and then tighten screws (A) and (B).

Fig. 4-4-15



Note:

Do not rotate the focus ring which is set in step 3 until both Blue and Red focus adjustment are completed.

4.4.7. RED FOCUS ADJUSTMENT

Purpose:

To set the focus over the whole screen.

Symptom of Misadjustment:

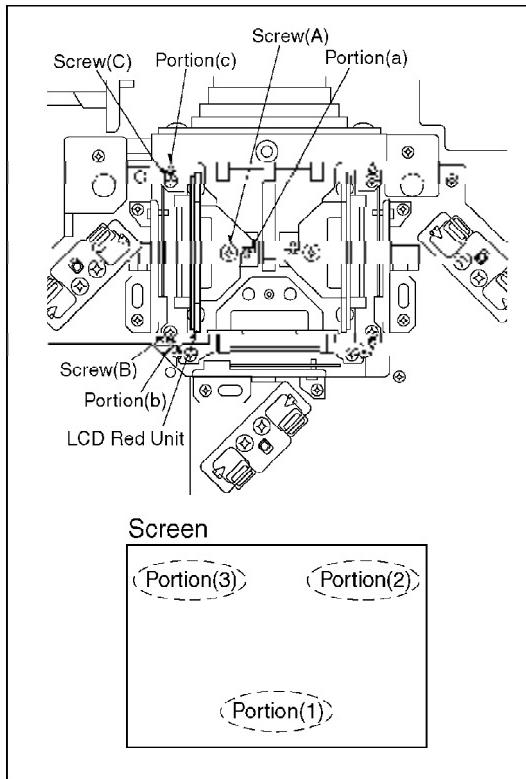
The picture will be out of focus.

TP	ADJ.	INPUT
	LCD RED UNIT	(RGB1 Input Connector) RED CROSSHATCH PATTERN SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.

- 2. Rotate the focus ring so that the whole screen is in focus.**
- 3. Supply Green crosshatch pattern signal and Project on the screen.**
- 4. Supply Red Crosshatch Pattern Signal and project on the screen.**
- 5. Loosen screws (A), (B) and (C) of LCD Red Unit.**
- 6. Insert a (-) screwdriver into Portion (a) and twist it to adjust the focus on the lower center portion of the screen (Portion (1)).**
After the adjustment, tighten screw (A) slightly.
- 7. Insert a (-) screwdriver into Portion (b) and twist it to adjust the focus on the upper right portion of the screen (Portion (2)).**
After the adjustment, tighten screw (B) slightly.
- 8. Insert a (-) screwdriver into Portion (c) and twist it to adjust the focus on the upper left portion of the screen (Portion (3)).**
After the adjustment, tighten screw (C) slightly.
- 9. Confirm that the lower center portion of the screen (Portion (1)) is in focus. If it is out of focus, repeat steps 6 through 8.**
- 10. Confirm that the whole screen is in focus, and then tighten screws (A), (B), and (C).**

Fig. 4-4-16



4.4.8. BLUE FOCUS ADJUSTMENT

Purpose:

To set the focus over the whole screen.

Symptom of Misadjustment:

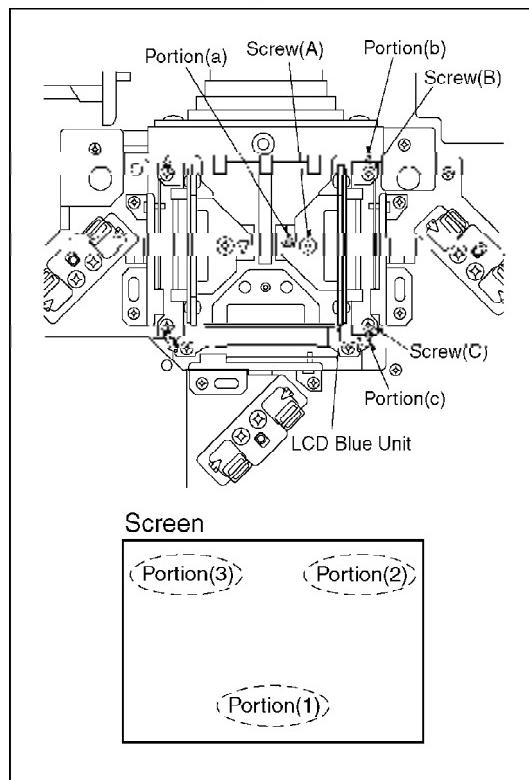
The picture will be out of focus.

TP	ADJ.	INPUT
	LCD BLUE UNIT	(RGB1 Input Connector) BLUE CROSSHATCH PATTERN SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Rotate the focus ring so that the whole screen is in focus.
3. Supply Green crosshatch pattern signal and Project on the screen.
4. Supply Blue Crosshatch Pattern Signal and project on the screen.

- 5. Loosen screws (A), (B) and (C) of LCD Blue Unit.**
- 6. Insert a (-) screwdriver into Portion (a) and twist it to adjust the focus on the lower center portion of the screen (Portion (1)).**
After the adjustment, tighten screw (A) slightly.
- 7. Insert a (-) screwdriver into Portion (b) and twist it to adjust the focus on the upper right portion of the screen (Portion (2)).**
After the adjustment, tighten screw (B) slightly.
- 8. Insert a (-) screwdriver into Portion (c) and twist it to adjust the focus on the upper left portion of the screen (Portion (3))(3)).**
After the adjustment, tighten screw (C) slightly.
- 9. Confirm that the lower center portion of the screen (Portion (1)) is in focus. If it is out of focus, repeat steps 6 through 8.**
- 10. Confirm that the whole screen is in focus, and then tighten screws (A), (B), and (C).**

Fig. 4-4-17



4.4.9. LCD CONVERGENCE ADJUSTMENT

Purpose:

To set the uniform convergence over the whole screen.

Symptom of Misadjustment:

The convergence on the screen will vary.

TP	ADJ.	INPUT
	LCD BLUE UNIT LCD RED UNIT	(RGB1 Input Connector) CROSSHATCH PATTERN SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Crosshatch Pattern Signal and project on the screen.
3. (R-G Convergence Adjustment)
Loosen 2 Hexagon screws (A) of LCD RED Unit as shown in [Fig. 4-4-18](#) Grasp the Adjust Plate (a) and move the plate so that the Red line exactly overlaps the Green line as shown in [Fig. 4-4-19](#).
4. Tighten 2 Hexagon screws (A) with a Hexagon Wrench.
5. (B-G Convergence Adjustment)
Loosen 2 Hexagon screws (B) of LCD BLUE Unit as shown in [Fig. 4-4-18](#) Grasp the Adjust Plate (b) and move the plate so that the Blue line exactly overlaps the Green line as shown in [Fig. 4-4-19](#).
6. Tighten 2 Hexagon screws (B) with a Hexagon Wrench.

Fig. 4-4-18

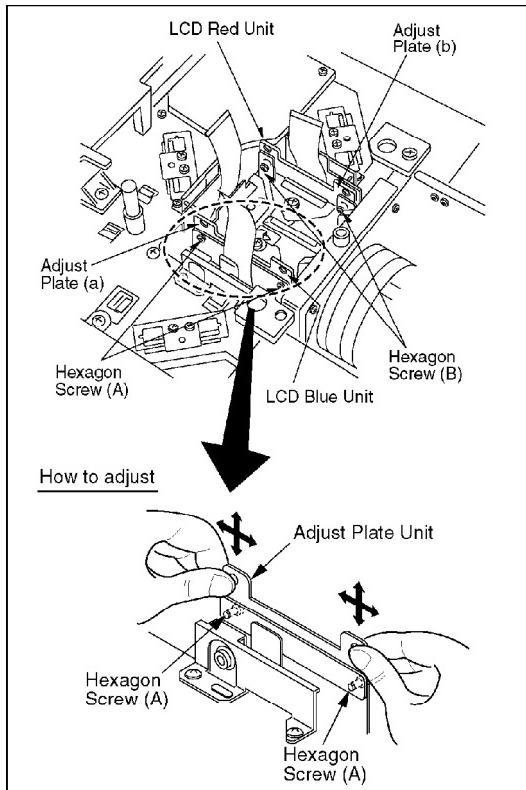
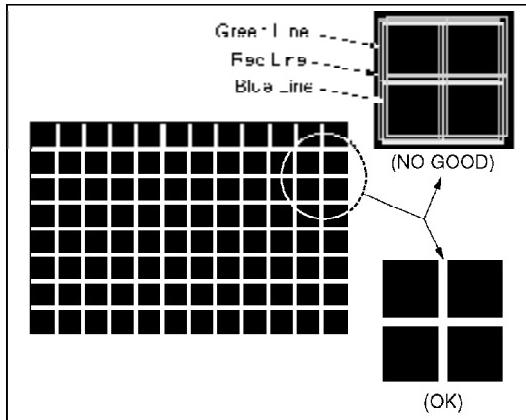


Fig. 4-4-19



Note:

Use a Hexagon Wrench (2.5mm) for Hexagon screw (A) and screw (B).

4.4.10. POLARIZER ADJUSTMENT

Purpose:

To set the polarizer unit (incidence side) in the proper position.

Symptom of Misadjustment:

The picture will become bluish or reddish or greenish.

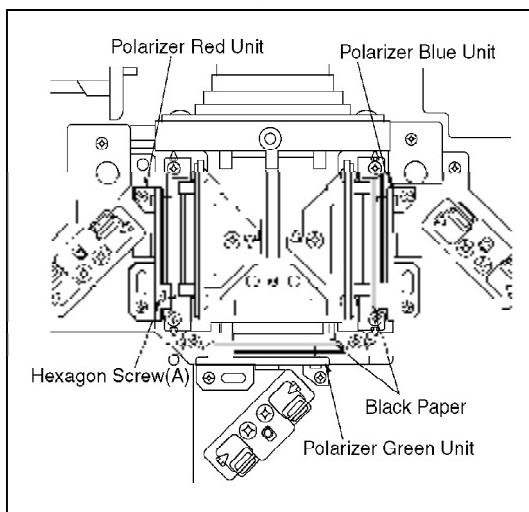
TP	ADJ.	INPUT
	POLARIZER RED UNIT POLARIZER GREEN UNIT POLARIZER BLUE UNIT	(RGB1 Input Connector) BLACK SIGNAL (0 %)
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.

- POLARIZER RED ADJUSTMENT

1. Insert a black paper in the gap between the LCD Unit and the Polarizer Unit and shut out the light completely for the G and B light paths.
2. Supply Black Signal (0 %) and project on the screen.
3. Loosen a Hexagon Screw (A) of Polarizer Red Unit.
4. Move the Polarizer Red Unit to the right and left so that the whole screen becomes the blackest possible value, and then tighten a Hexagon Screw (A) with a Hexagon Wrench.

Fig. 4-4-20

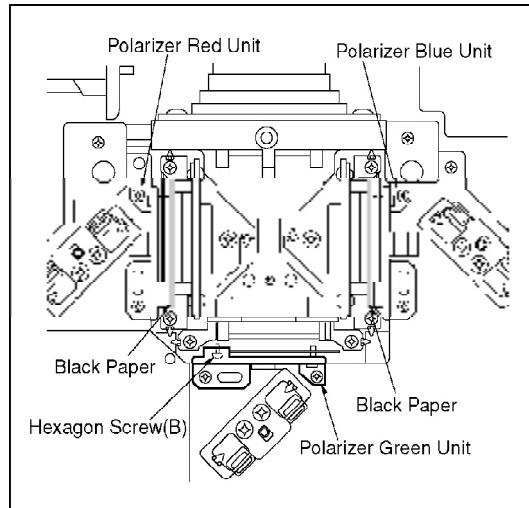


- POLARIZER GREEN ADJUSTMENT

1. Insert a black paper in the gap between the LCD Unit and the Polarizer Unit and shut out the light completely for the R and B light paths.
2. Supply Black Signal (0 %) and project on the screen.

- 3. Loosen a Hexagon Screw (B) of Polarizer Green Unit.**
- 4. Move the Polarizer Green Unit to the right and left so that the whole screen becomes the blackest possible value, and then tighten a Hexagon Screw (B) with a Hexagon Wrench.**

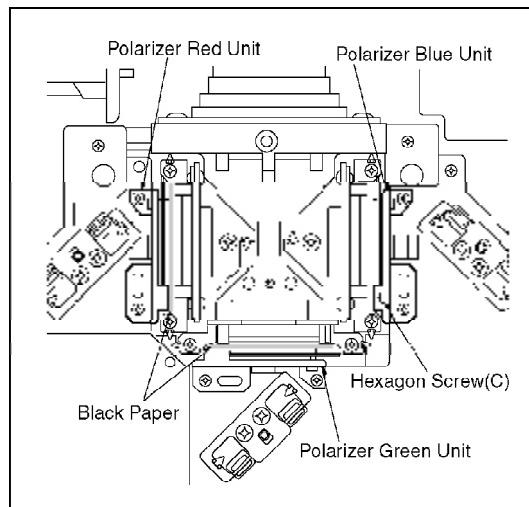
Fig. 4-4-21



- POLARIZER BLUE ADJUSTMENT

- 1. Insert a black paper in the gap between the LCD Unit and the Polarizer Unit and shut out the light completely for the R and G light paths.**
- 2. Supply Black Signal (0 %) and project on the screen.**
- 3. Loosen a Hexagon Screw (C) of Polarizer Blue Unit.**
- 4. Move the Polarizer Blue Unit to the right and left so that the whole screen becomes the blackest possible value, and then tighten a Hexagon Screw (C) with a Hexagon Wrench.**

Fig. 4-4-22



Note:

Use a Hexagon Wrench (2.5mm) for Hexagon screw (A), screw (B) and screw (C).

4.4.11. FULL MIRROR ADJUSTMENT

Purpose:

To set the Full Mirror in the proper position.

Symptom of Misadjustment:

The non-uniformity color will appear.

TP	ADJ.	INPUT
	FULL MIRROR GREEN FULL MIRROR RED FULL MIRROR BLUE	(RGB1 Input Connector) 100 % GREEN SIGNAL 100 % YELLOW SIGNAL 100 % WHITE SIGNAL
EQUIPMENT		SPECIFICATION
TEST PATTERN SIGNAL		Refer to Description below

Adjustment:

Adjust the right and left sides of the screen by adjusting portion (a), portion (b) or portion (c) and adjust the top and bottom sides of the screen by adjusting back and forth direction.

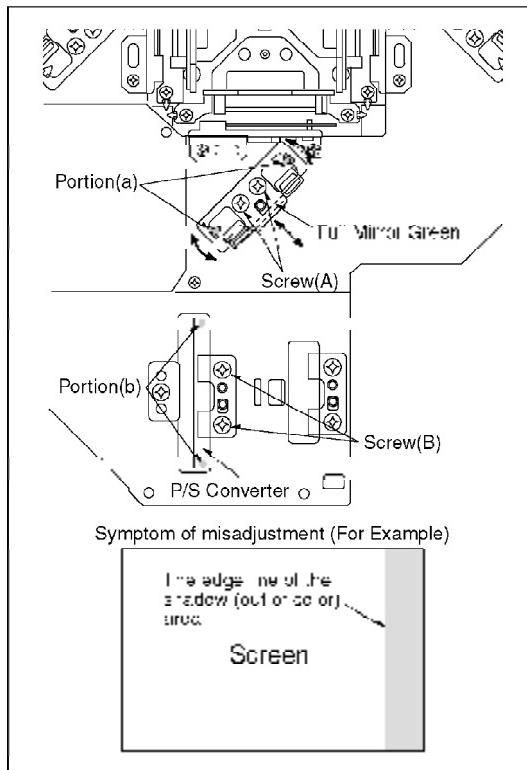
1. Connect the Personal Computer to the RGB1 IN with the VGA cable.

- FULL MIRROR-GREEN ADJUSTMENT

- 1. Supply 100 % Green Signal and project on the screen.**
- 2. Loosen 2 Screws (A) of the Full Mirror Green.**
- 3. Insert a (-) screwdriver into Portion (a) and adjust it so that the shadow (out of color) area appears on the left or right side of the screen.**
- 4. Loosen the screw (B).**
- 5. Press Portion (b) of P/S converter alternately and rotate P/S converter to adjust it so that the edge line of the shadow (out of color) area can display as clearly as possible.**
- 6. Tighten the screw (B).**
- 7. Insert a (-) screwdriver into Portion (a) and move the Full Mirror Green in the direction shown by the arrows so that color**

uniformity is achieved over the whole screen. And then tighten 2 Screws (A).

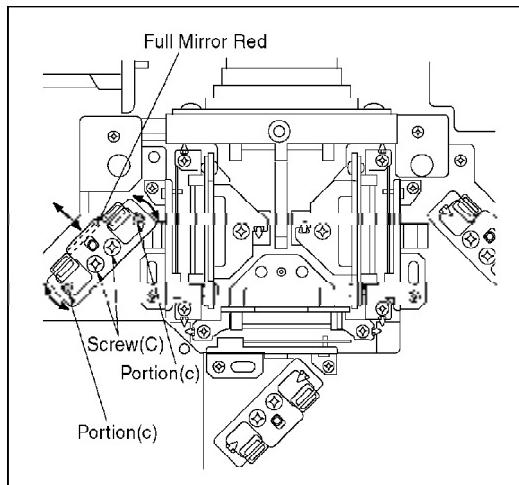
Fig. 4-4-23



- FULL MIRROR-RED ADJUSTMENT

1. Supply 100 % Yellow Signal and project on the screen.
2. Loosen 2 Screws (C) of the Full Mirror Red.
3. Insert a (-) screwdriver into Portion (c) and move the Full Mirror Red in the direction shown by the arrows so that color uniformity is achieved over the whole screen. And then tighten 2 screws (C).

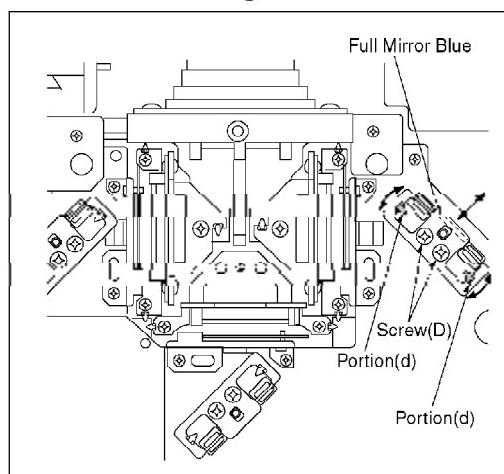
Fig. 4-4-24



- FULL MIRROR-BLUE ADJUSTMENT

1. Supply 100 % White Signal and project on the screen.
2. Loosen 2 Screws (D) of the Full Mirror Blue.
3. Insert a (-) screwdriver into Portion (d) and move the Full Mirror Blue in the direction shown by the arrows so that color uniformity is achieved over the whole screen. And then tighten 2 screws (D).

Fig. 4-4-25



Note:

Do not use excessive force when adjusting the Mirror. Otherwise, the Mirror may be damaged.

4.4.12. DUCT FAN SPEED ADJUSTMENT

Purpose:

To set the optimum turn speed of the Duct Fan.

Symptom of Misadjustment:

Temperature of the LCD projector becomes too high or sound of the Duct Fan becomes loud.

TP	ADJ.	INPUT
TP1961 TP1907 (GND)		
EQUIPMENT		SPECIFICATION
DVM (DIGITAL VOLT METER)		10.8 V ± 0.05 V DC

Note:

TP1961, TP1907: MAIN C.B.A.

- 1. Connect the DVM (Digital Volt Meter) to TP1961.**
- 2. Press ▲ or ▼ button on the remote control to select “FAN1 SPEED”.**
- 3. Press ◀ or ▶ button so that the voltage shown in the display of DVM is $10.8 \text{ V} \pm 0.05 \text{ V DC}$.**

4.4.13. LAMP FAN-1 SPEED ADJUSTMENT

Purpose:

To set the optimum turn speed of the Lamp Fan-1.

Symptom of Misadjustment:

Temperature of the LCD projector becomes too high or sound of the Lamp Fan-1 becomes loud.

TP	ADJ.	INPUT
TP1962 TP1907 (GND)		
EQUIPMENT		SPECIFICATION
DVM (DIGITAL VOLT METER)		$8.8 \text{ V} \pm 0.05 \text{ V DC}$

Note:

TP1962, TP1907: MAIN C.B.A.

- 1. Connect the DVM (Digital Volt Meter) to TP1962.**
- 2. Press ▲ or ▼ button on the remote control to select “FAN2 SPEED”.**
- 3. Press ◀ or ▶ button so that the voltage shown in the display of DVM is $8.8 \text{ V} \pm 0.05 \text{ V DC}$.**

Note:

After completing adjustments, press the “ MENU” button to release from “Lcd/Fan Adjust” mode.

4.4.14. LCD POWER VOLTAGE ADJUSTMENT

Purpose:

To set the standard voltage for LCD panel.

Symptom of Misadjustment:

LCD panel may be damaged.

TP	ADJ.	INPUT
TP1908 or TP1904 TP1907 (GND)		
EQUIPMENT		SPECIFICATION
DVM (DIGITAL VOLT METER)		15.3 V ± 0.05 V DC

Note:

TP1904, TP1907, TP1908: MAIN C.B.A.

1. Connect the DVM (Digital Volt Meter) to TP1904 or TP1908.
2. Press ▲ or ▼ button on the remote control to select “15.3V”.
3. Press ◀ or ▶ button so that the voltage shown in the display of DVM is 15.3 V ± 0.05 V DC.

4.4.15. RGB INPUT LEVEL ADJUSTMENT

Purpose:

To set the optimum signal level.

Symptom of Misadjustment:

The picture will be too light or too dark.

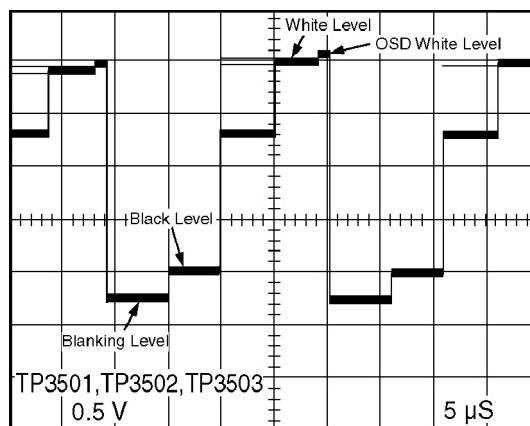
TP	ADJ.	INPUT
TP3501 TP3502 TP3503		(RGB1 Input Connector) GRAY SCALE PATTERN SIGNAL (3 SCALE)
EQUIPMENT		SPECIFICATION
OSCILLOSCOPE TEST PATTERN SIGNAL		Refer to Description below

Note:

TP3501, TP3502, TP3503: Main C.B.A.

1. Connect the Personal Computer to the RGB1 IN with the VGA cable.
2. Supply Gray Scale Pattern Signal (3 scales).
3. Connect the oscilloscope to TP3501.
4. Press ▲ or ▼ button on remote control to select “R BRIGHT”.
5. Press ◀ or ▶ button so that Black level becomes the same as Blanking level.
6. Select “R LEVEL”, and press ◀ or ▶ button so that White level becomes the same as OSD White level.
7. Connect the oscilloscope to TP3502.
8. Press ▲ or ▼ button on remote control to select “G BRIGHT”.
9. Press ◀ or ▶ button so that Black level becomes the same as Blanking level.
10. Select “G LEVEL”, and press ◀ or ▶ button so that White level becomes the same as OSD White level.
11. Connect the oscilloscope to TP3503.
12. Press ▲ or ▼ button on remote control to select “B BRIGHT”.
13. Press ◀ or ▶ button so that Black level becomes the same as Blanking level.
14. Select “B LEVEL”, and press ◀ or ▶ button so that White level becomes the same as OSD White level.

Fig. 4-4-26



4.4.16. VIDEO INPUT ADJUSTMENT

Purpose:

To set the optimum signal level.

Symptom of Misadjustment:

The picture will be too light or too dark.

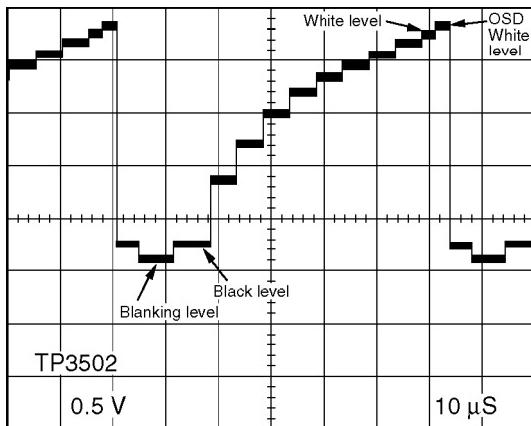
TP	ADJ.	INPUT
TP3502		(VIDEO Input Connector) GRAY SCALE PATTERN SIGNAL (10 SCALE)
EQUIPMENT		SPECIFICATION
OSCILLOSCOPE NTSC VIDEO PATTERN GENERATOR		Refer to Description below

Note:

TP3502: Main C.B.A.

- 1. Connect the NTSC Video Pattern Generator to the VIDEO IN.**
- 2. Supply Gray Scale Pattern Signal (10 scales).**
- 3. Connect the oscilloscope to TP3502.**
- 4. Press ▲ or ▼ button on remote control to select “VIDEO BRIGHT”.**
- 5. Press ◀ or ▶ button so that the black level becomes the same as blanking level.**
- 6. Press ▲ or ▼ button on remote control to select “VIDEO LEVEL”.**
- 7. Press ◀ or ▶ button so that the white level becomes the same as OSD white level.**

Fig. 4-4-27



4.4.17. COMPONENT VIDEO OFFSET ADJUSTMENT

Purpose:

To set the optimum signal level.

Symptom of Misadjustment:

The picture will be too light or too dark.

TP	ADJ.	INPUT
TP3501 TP3503		(YP _B P _R Input Connector) COMPONENT VIDEO 100 % COLOR BAR SIGNAL or COMPONENT VIDEO GRAY SCALE PATTERN SIGNAL (SET UP: YPBPR)
EQUIPMENT		SPECIFICATION
OSCILLOSCOPE PROGRAMMABLE VIDEO SIGNAL GENERATOR		Refer to Description below

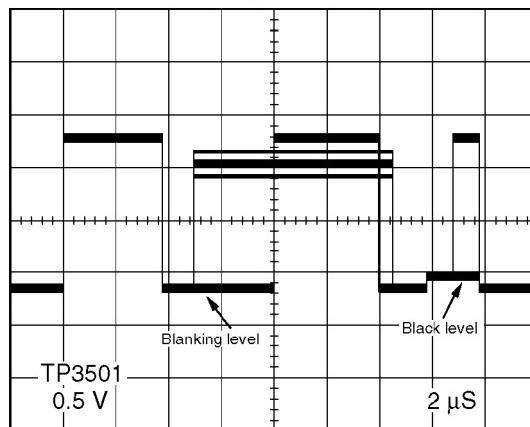
Note:

TP3501, TP3503: Main C.B.A.

1. Connect the Programmable Video Signal Generator to the YP_BP_R IN with the D-sub15-BNC5 cable and the BNC cable.
2. Change the input signal setting of RGB1/YP_BP_R input connector to YP_BP_R in “RGB1/YP_BP_R” of “Function” of the Menu.
3. Supply Component Video 100 % Color Bar Signal or Component Video Gray Scale Pattern Signal.
4. Connect the oscilloscope to TP3501.

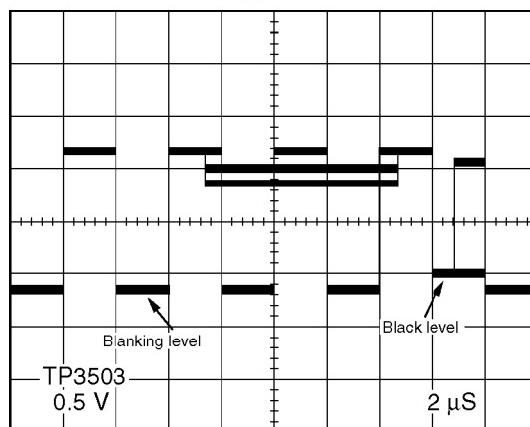
5. Press **▲** or **▼** button on remote control to select “PR- OFFSET”.
6. Press **◀** or **▶** button so that the Black level becomes the same as Blanking level.

Fig. 4-4-28



7. Connect the oscilloscope to TP3503.
8. Press **▲** or **▼** button on remote control to select “PB- OFFSET”.
9. Press **◀** or **▶** button so that the Black level becomes the same as Blanking level.

Fig. 4-4-29



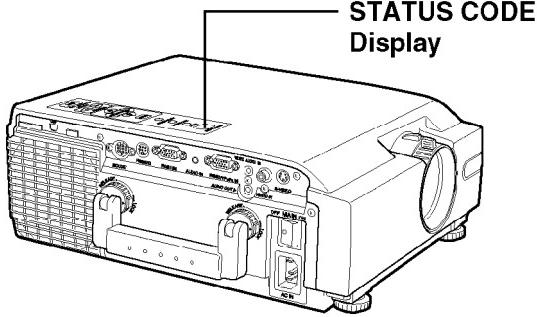
Note:

After completing adjustments, press the “ MENU” button to release from “Video/Rgb Adjust” mode.

5. TROUBLESHOOTING HINTS

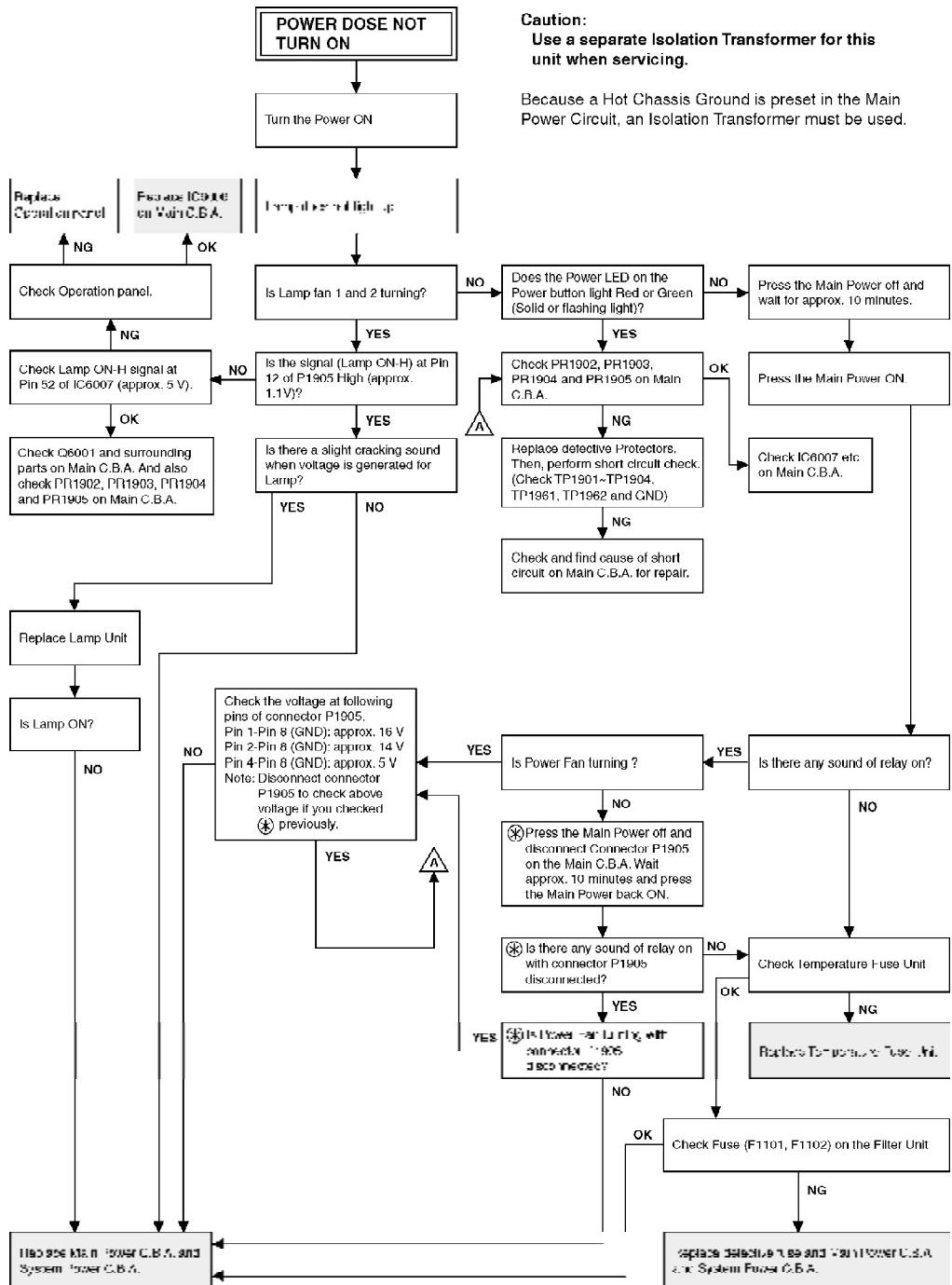
Status Code Display Indications

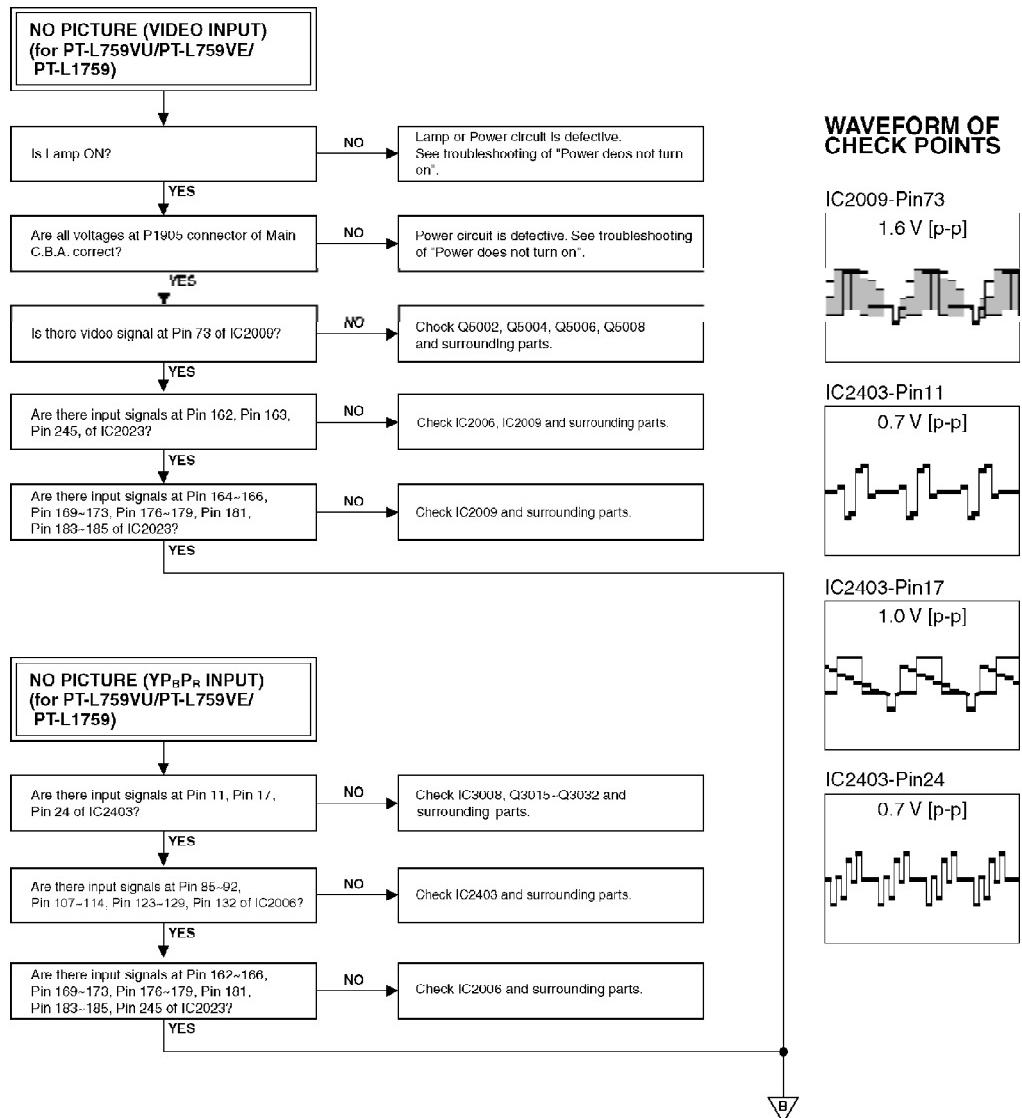
Following Status Code will be displayed in the STATUS CODE display.

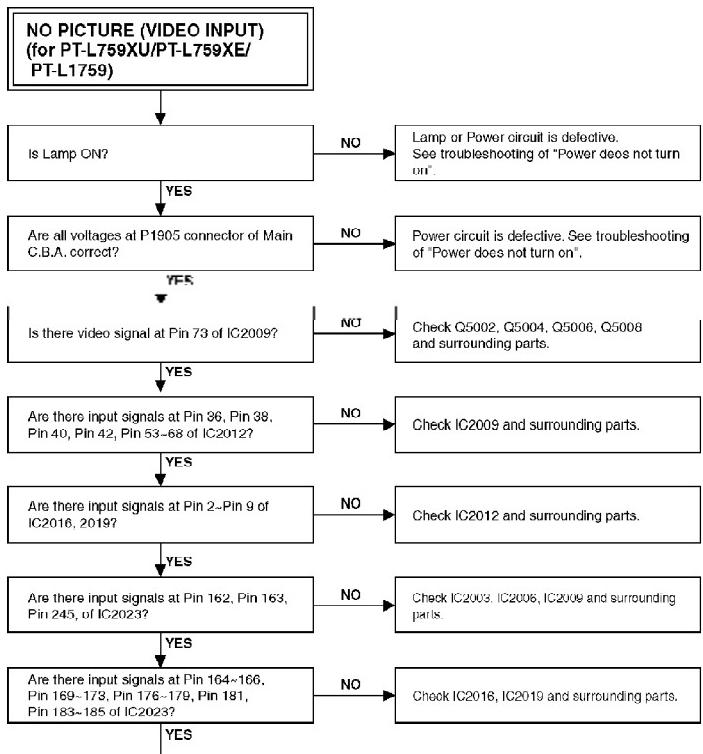


STATUS CODE	Symptom	Problem	Possible Solution
F-L	Lamp automatically turns off or does not light up.	<ul style="list-style-type: none"> Cooling fan (Duct Fan and/or Lamp Fan 1 and/or Lamp Fan 2) malfunction. 	<p>1) Confirm that all cables are connected to connectors (P1902, P1903, P1905, P1906) correctly. 2) Check following fan lock signal</p> <pre> graph TD A[Lamp ON] --> B[Check the voltage at following pins of IC1961, IC1962. Pin 1-Pin 5 (GND): approx. 14 V] B -- YES --> C[Check the voltage at following pins of connectors P1902, P1903, P1906. Pin 1-Pin 3 (GND): above 8 V] C -- NO --> D[Check the voltage at following pins of C1961, C1962. Pin 2-Pin 5 (GND): above 2.5 V] D -- YES --> E[Replace IC1961 or IC1962.] D -- NO --> F[Check C1961, IC1962, IC6007 and surrounding parts.] C -- YES --> G[Check Pin 3 of P1902. (Duct fan lock signal)] G -- High --> H[Replace Duct. Fan.] G -- Low --> I[Check Pin 3 of P1903. (Lamp Fan 1 lock signal)] I -- High --> J[Replace Lamp. Fan 1.] I -- Low --> K[Check Pin 3 of P1906. (Lamp Fan 2 lock signal)] K -- High --> L[Replace Lamp. Fan 2.] K -- Low --> F </pre>
F-O	Misinstalled Air Filter Unit or Lamp cover.	<ul style="list-style-type: none"> Properly install Air Filter Unit or Lamp cover. 	

STATUS CODE	Symptom	Problem	Possible Solution
A-n	Lamp automatically turns off or does not light up.	<ul style="list-style-type: none"> Temperature Sensor malfunction. (Thermistor on the Duct.) 	<ul style="list-style-type: none"> Check the voltage at Pin 1 and Pin 3 of P6002.
A-0		<ul style="list-style-type: none"> Clogged air filter. Blocked air intake. The surrounding temperature of the place of use may be too high or low. 	<ul style="list-style-type: none"> Clean the filter. Relocate projector to a proper location. Place projector so that surrounding temperature is between 0 °C (32 °F) and 40 °C (104 °F) and the humidity is between 20 % and 80 % (with no condensation).
L-n		<ul style="list-style-type: none"> There is the possibility that Lamp is burned-out. 	<ul style="list-style-type: none"> Wait until the Lamp Unit has cooled off (approx. 5 minutes) and try to turn the power back on. If this code appears, try above again and again. If this code appears continuously more than 5 or 6 times, replace the Lamp Unit. If this code appears again after replacement of the Lamp Unit, replace Main Power C.B.A. and System Power C.B.A.
P-2		<ul style="list-style-type: none"> Lamp Voltage is not correct. 	<ul style="list-style-type: none"> Wait until the Lamp Unit has cooled off (approx. 5 minutes) and try to turn the power back on. Replace the Lamp Unit.
P-3		<ul style="list-style-type: none"> Abnormal temperature rise. 	<ul style="list-style-type: none"> Wait until the Lamp Unit has cooled off (approx. 5 minutes) and try to turn the power back on. Check if Power Fan is rotating or not. <pre> graph TD A[Is Power Fan rotating] -- NO --> B[Replace the Main Power C.B.A. and System Power C.B.A.] A -- YES --> C[Is the voltage at Pin 1 of P7002 above 2.5V?] C -- YES --> D[Replace the Power Fan] C -- NO --> E[Replace the Main Power C.B.A. and System Power C.B.A.] </pre>
P-4		<ul style="list-style-type: none"> Other cause 	<ul style="list-style-type: none"> Wait until the Lamp Unit has cooled off (approx. 5 minutes) and try to turn the power back on. Replace the Main Power C.B.A. and System Power C.B.A.
L-1	Lamp operation time is over 1 900 hours	<ul style="list-style-type: none"> It is nearly time to replace the Lamp Unit 	<ul style="list-style-type: none"> Replace the Lamp Unit.
L-2	Lamp operation time is over 2 000 hours	<ul style="list-style-type: none"> The Lamp Unit must be replaced 	
C-d	Forced cooling fan operating to expedite lamp replacement.		



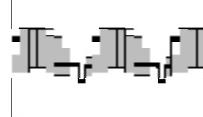




WAVEFORM OF CHECK POINTS

IC2009-Pin73

1.6 V [p-p]



IC2403-Pin11

0.7 V [p-p]



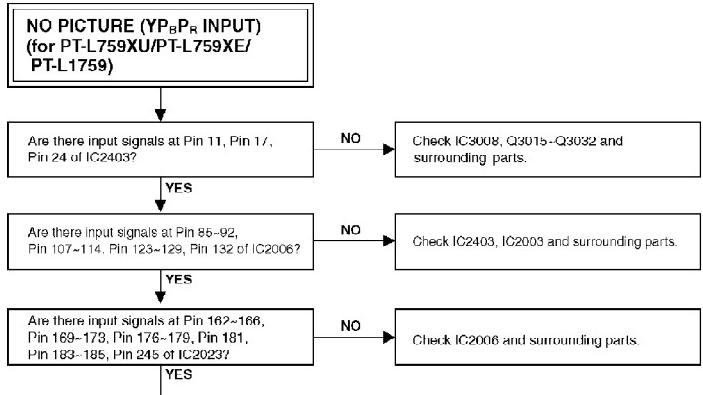
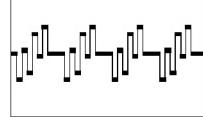
IC2403-Pin17

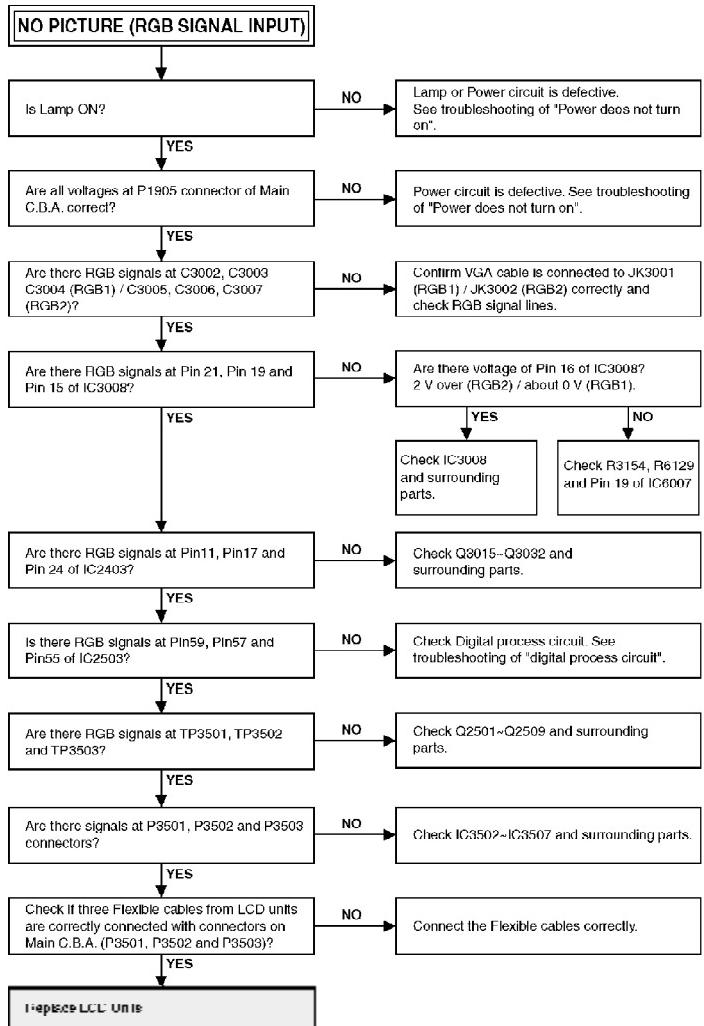
1.0 V [p-p]



IC2403-Pin24

0.7 V [p-p]





WAVEFORM OF CHECK POINTS

IC2403 Pin17, C3003

0.7 V [p-p]



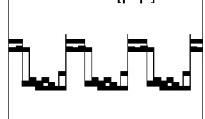
TP3501

1.45 V [p-p]



TP3502

1.45 V [p-p]



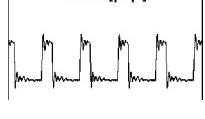
TP3503

1.45 V [p-p]



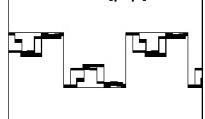
P3501-Pin15, 16

15 V [p-p]



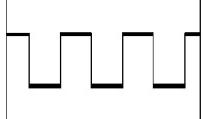
P3502-Pin24

10 V [p-p]



P3501-Pin34, 35

15 V [p-p]



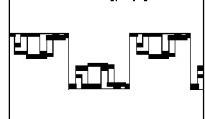
P3501-Pin21, 22

15 V [p-p]



P3501-Pin24

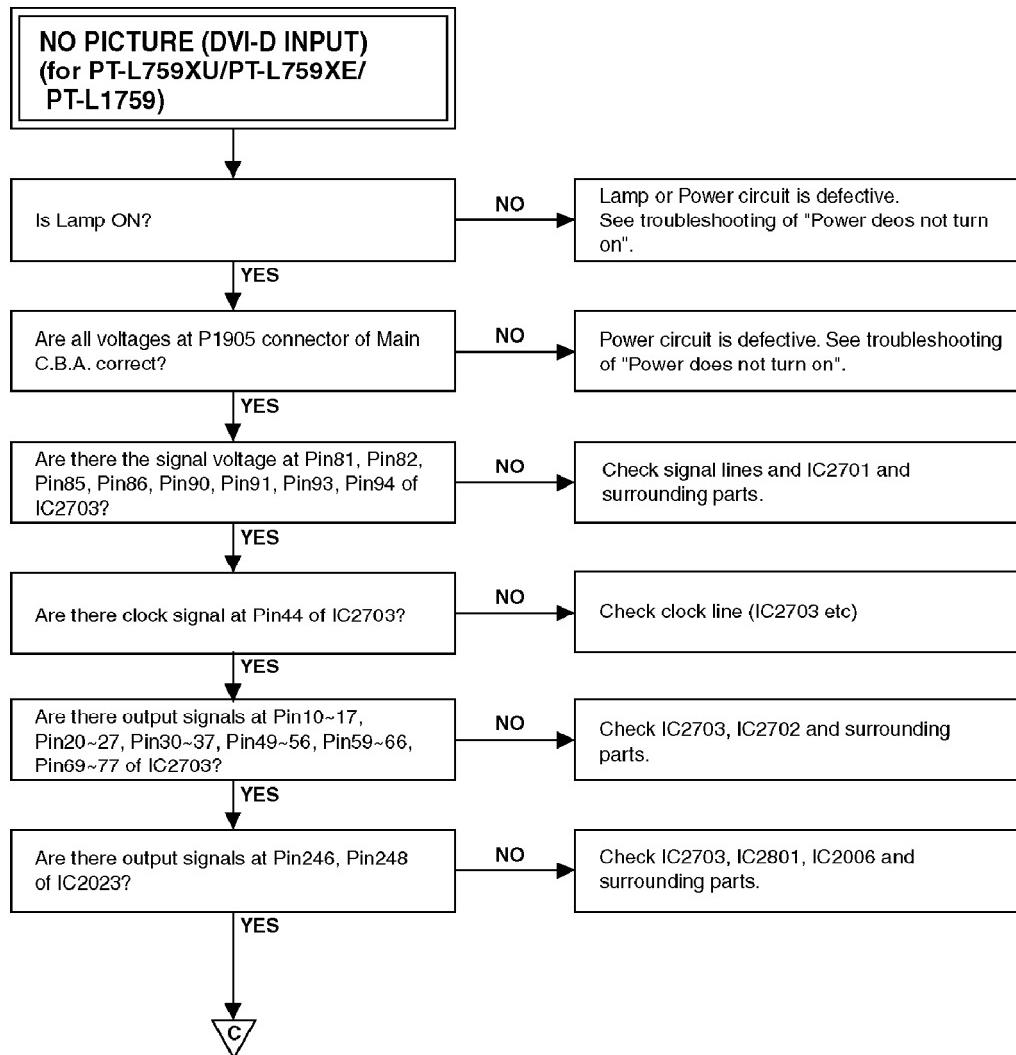
10 V [p-p]

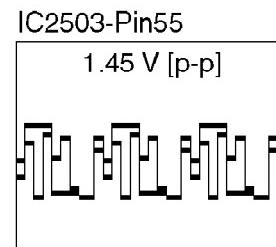
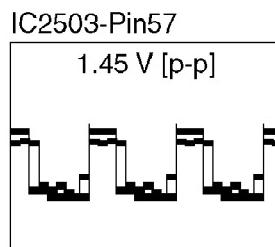
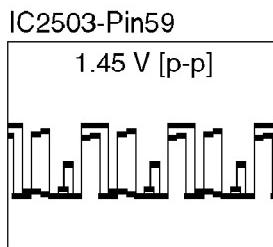
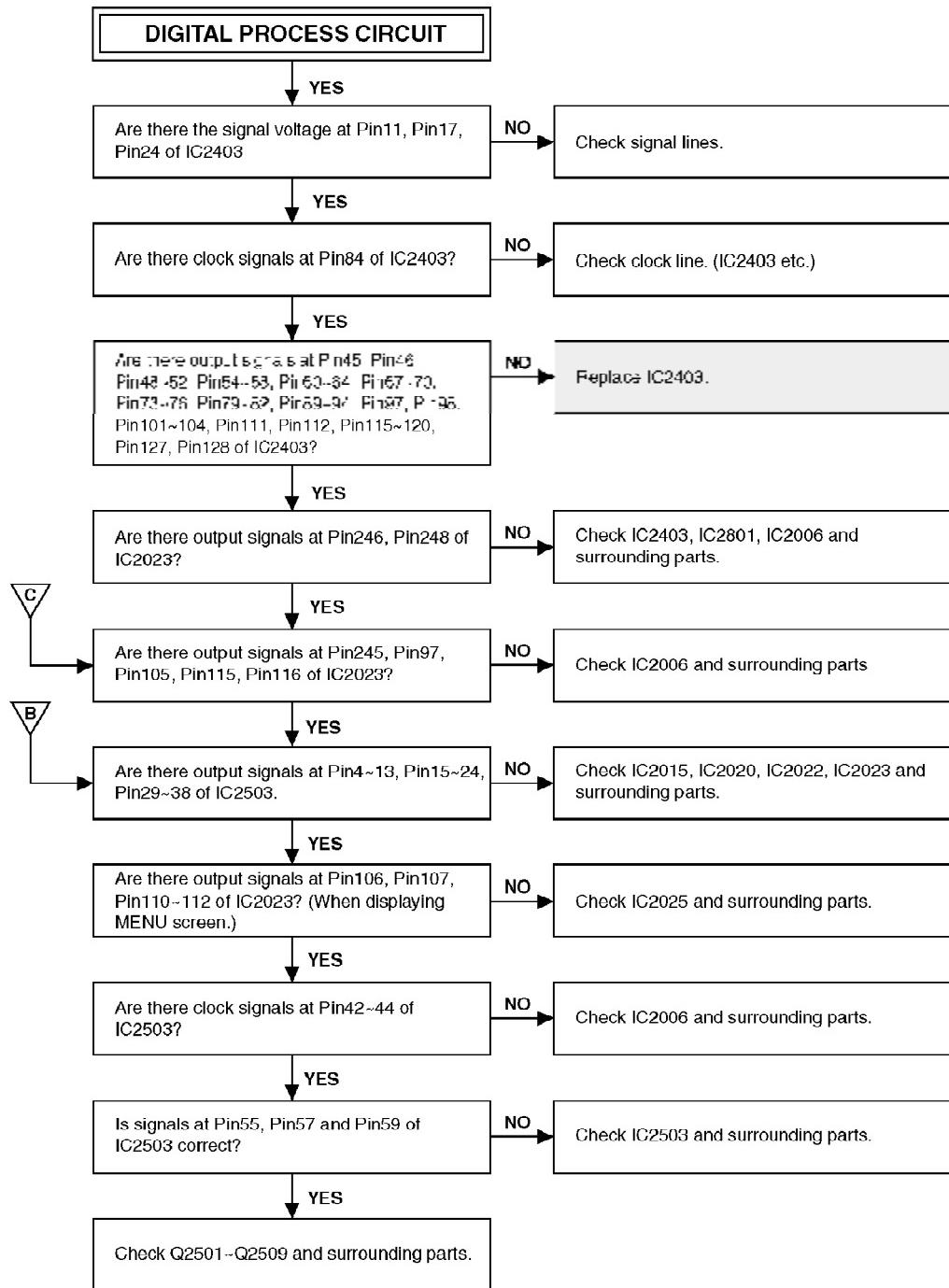


P3503-Pin24

10 V [p-p]







6. BLOCK DAIGRAM

7. SCHEMATIC DIAGRAMS

7.1. SCHEMATIC DIAGRAM NOTES

1. Important safety notice

Components identified by the sign  have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

2. Do not use the part number shown on this drawing for ordering. /

The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Parts different in shape or size may be used.

However, only interchangeable parts will be supplied as service replacement parts.

5. The part number shown on this drawing is only main part number, except for safety parts. Be sure to make your orders of replacement parts according to the parts list.

6. The Schematic Diagram of Main Power C.B.A., System Power C.B.A., Line Filter C.B.A. and Filter C.B.A. is not included in this Service Manual.

Because, these Circuit Board Assemblies are supplied as a unit (C.B.A.) only.

7.2. INTERCONNECTION SCHEMATIC DIAGRAM

7.3. MAIN SHEMATIC DIAGRAM (LSEP3043A1: PT-L759XU/XE, LSEP3043C1: PT-1759X, LSEP3043F1: PT-L759VU/VE, LSEP3043H1: PT-1759V)

7.3.1. DIGITAL SECTION SCHEMATIC DIAGRAM

7.3.2. DRIVE SECTION SCHEMATIC DIAGRAM

7.3.3. SYSTEM SECTION SCHEMATIC DIAGRAM (including INFRARED SENSOR)

C.B.A. and THERMISTOR C.B.A. SCHEMATIC DIAGRAM)

7.3.3.1. I/O CHART FOR SYSTEM MICROCONTROLLER: IC6007

7.3.4. POWER/AUDIO/VIDEO SECTION SCHEMATIC DIAGRAM

7.3.5. VIDEO SECTION SCHEMATIC DIAGRAM

7.3.6. USB MOUSE SECTION SCHEMATIC DIAGRAM

7.3.7. INPUT SECTION SCHEMATIC DIAGRAM

7.3.8. AD/DA SECTION SCHEMATIC DIAGRAM

7.3.9. DVI SECTION SCHEMATIC DIAGRAM (PT-L759XU/XE/PT-L1759X only)

7.3.10. SYNC SIGNAL SECTION SCHEMATIC DIAGRAM

7.3.11. WAVEFORM

8. CIRCUIT BOARDS

8.1. CIRCUIT BOARDS NOTES

1. Important safety notice

Components identified by the sign  have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

2. Do not use the part number shown on this drawing for ordering. / The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Parts different in shape or size may be used.

However, only interchangeable parts will be supplied as service replacement parts.

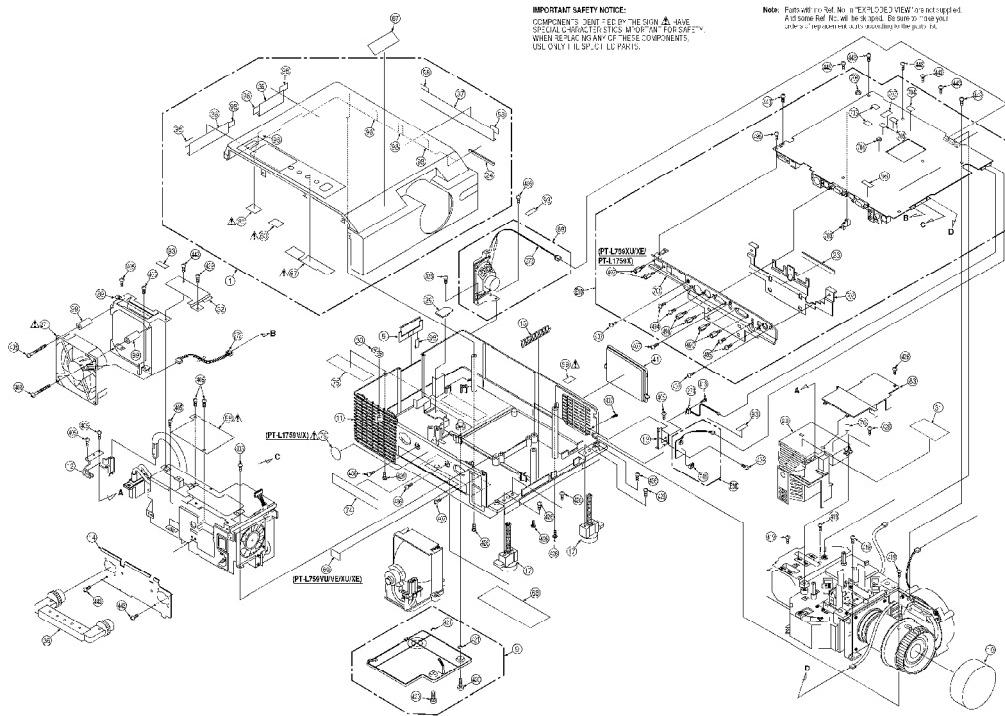
5. The Circuit Board of Main Power C.B.A., System Power C.B.A., Line Filter C.B.A. and Filter C.B.A. is not included in this Service Manual.

Because, these Circuit Board Assemblies are supplied as a unit (C.B.A.) only.

8.2. MAIN C.B.A. (LSEP3043A1:PT-L759XU/XE, LSEP3043C1:PT-L1759X, LSEP3043F1:PT-L759VU/VE, LSEP3043H1:PT-L1759V)

9. EXPLODED VIEWS

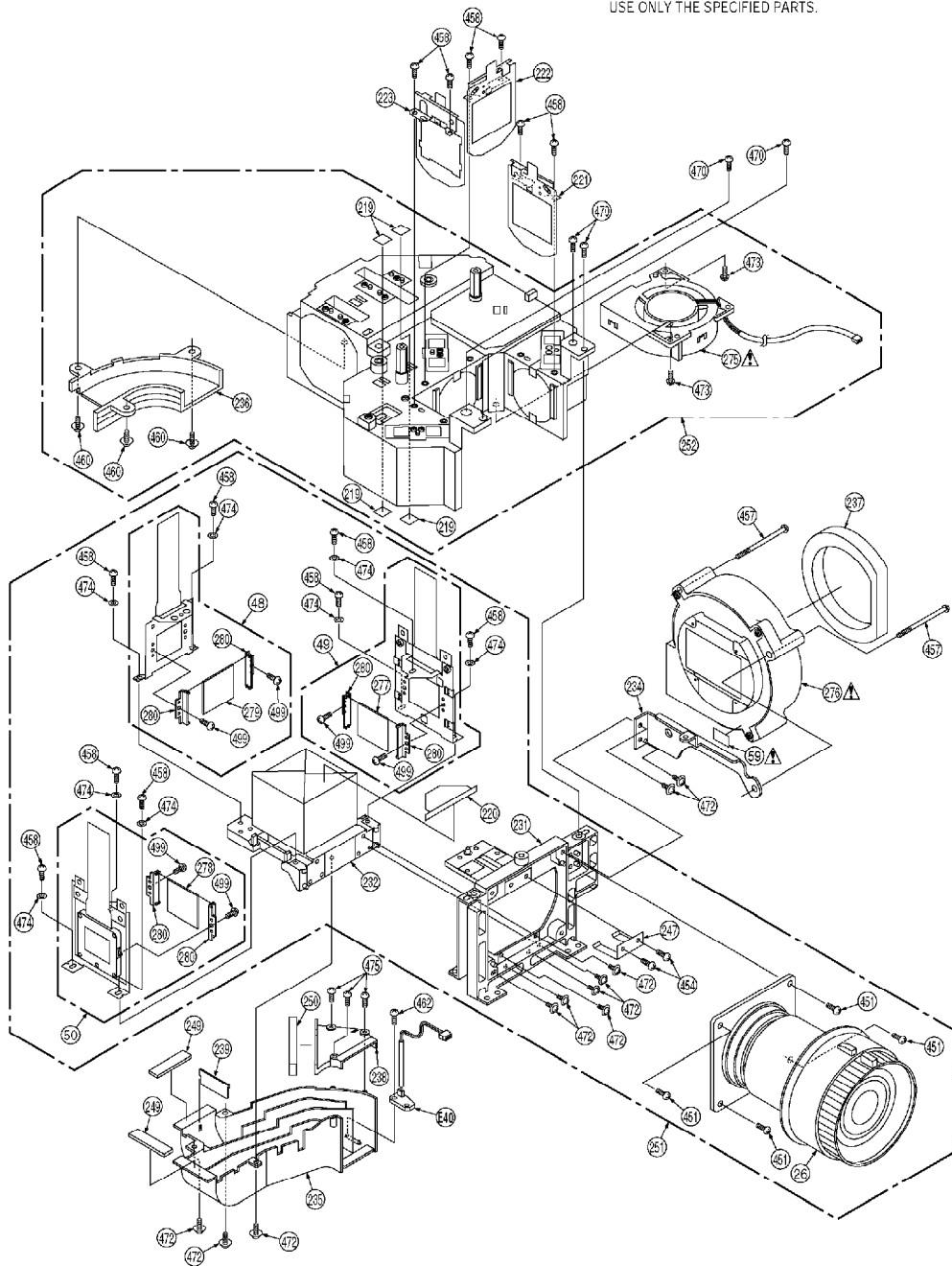
9.1. CHASSIS FRAME SECTION



9.2. OPTICAL BLOCK SECTION

IMPORTANT SAFETY NOTICE:

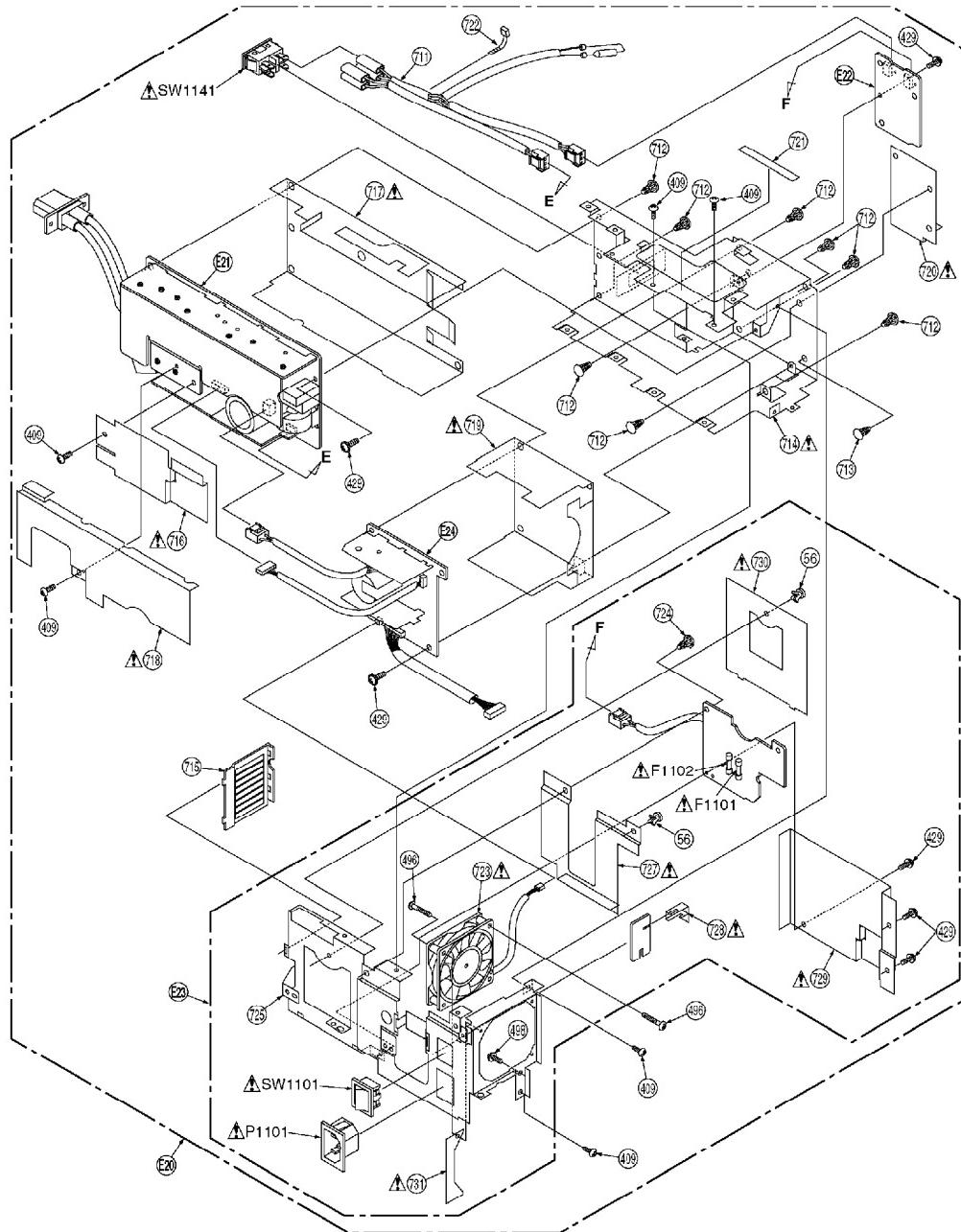
COMPONENTS IDENTIFIED BY THE SIGN  HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.



9.3. MAIN POWER SECTION

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED BY THE SIGN  HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.



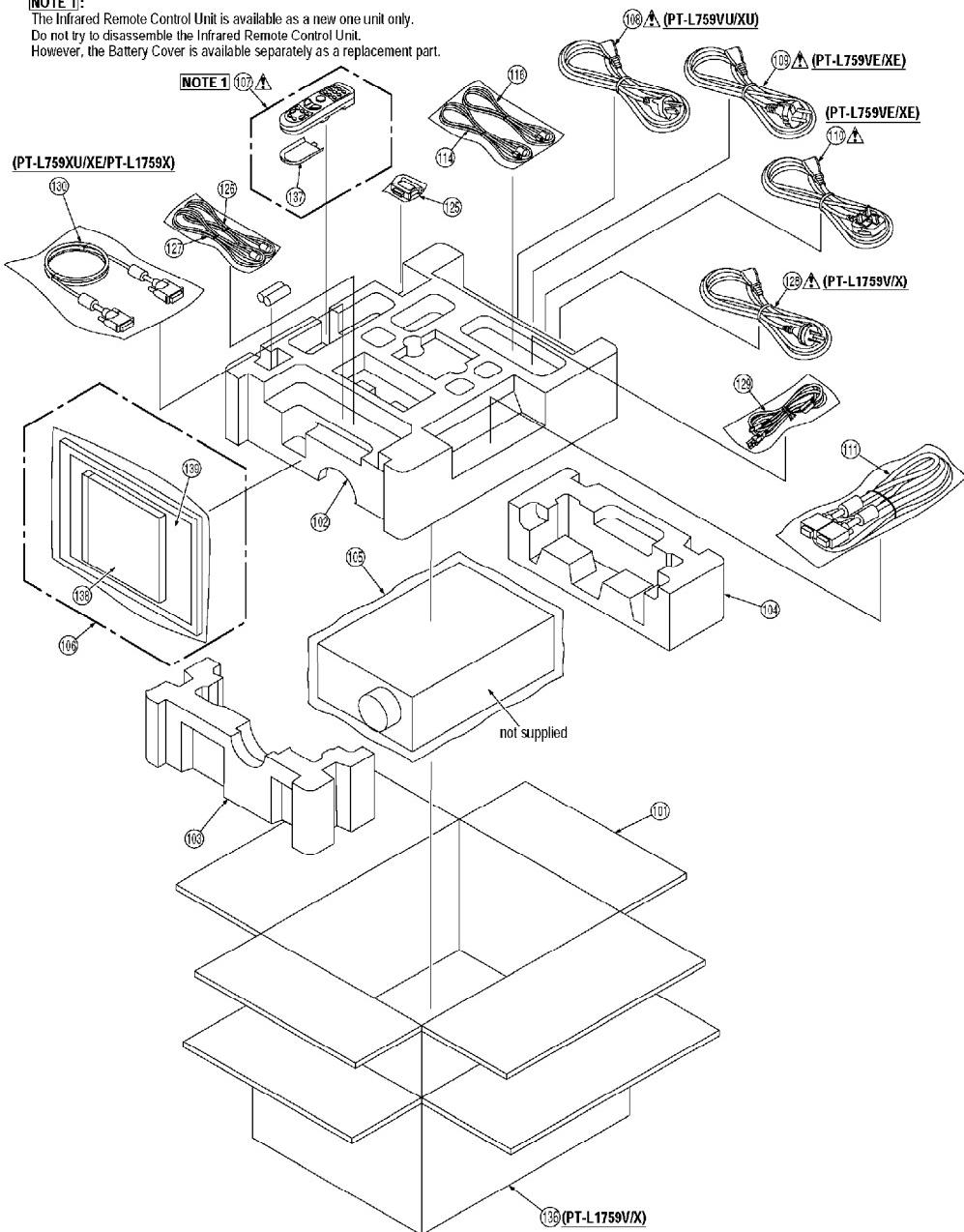
9.4. PACKING PARTS AND ACCESSORIES SECTION

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED BY THE SIGN  HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE 1:

The Infrared Remote Control Unit is available as a new one unit only.
Do not try to disassemble the Infrared Remote Control Unit.
However, the Battery Cover is available separately as a replacement part.



10. REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

10.1. REPLACEMENT NOTES

10.1.1. General Notes

1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. IMPORTANT SAFETY NOTICE

Components identified by the sign  have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied.

And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.

5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

6. All of parts are supplied from MKE.

7. Item numbers with capital letter E (Example: E10, E20,...) in the Ref. No. column are shown in the exploded views.

8. Parts whose Ref. Nos. are the same are interchangeable as replacement parts. Any of these parts may be ordered and used as a replacement part.

10.1.2. Mechanical Replacement Notes

1. Section No. of parts shown in Exploded Views are indicated in the Remarks column.

2. Abbreviation

RTL:

Retention Time Limited / This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

3. Liquid Crystal Display Unit (Ref. No. 48, 49, and 50) replacement

note: / When replacing the Liquid Crystal Display Unit, make sure to order the proper parts, referring to "Disassembly of Optical Unit" section.

4. Infrared Remote Control Unit (Ref. No. 107) replacement note: /
The Infrared Remote Control Unit is available as a new one unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the Battery Cover is available separately as a replacement part.

10.1.3. Electrical Replacement Notes

1. Unless otherwise specified; / All resistors are in Ω , K = 1,000 Ω , M = 1,000 k Ω .

2. Abbreviation

RTL:

Retention Time Limited / This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR:

Non Repairable Board Ass'y

MGF CHIP:

Metal Glaze Film Chip

C CHIP:

Ceramic Chip

COMPLX CMP:

Complex Component

W FLMPRF:

Wirewound Flameproof

C.B.A.:

Circuit Board Assembly

P.C.B.:

Printed Circuit Board

E.S.D.:

Electrostatically Sensitive Devices

3. SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 W. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.

4. When replacing 0 Ω resistor, a wire can be substituted for it.

5. C.B.A. replacement note:

Following C.B.A.s are supplied as a Unit(C.B.A.) only. / Please note that individual parts on C.B.A. are NOT / supplied. However, the parts on Filter C.B.A. with Ref. No. in “EXPLODED VIEWS” are available separately as a replacement part.

- E21 Main Power C.B.A.**
- E22 Line Filter C.B.A.**
- E23 Filter C.B.A.**
- E24 System Power C.B.A.**

10.2. MECHANICAL REPLACEMENT PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
MECHANICAL REPLACEMENT PARTS			
<u>1</u>	LSYF0510	TOP COVER ASS'Y	1
1	LSYF0512	TOP COVER ASS'Y	1
<u>5</u>	LSGP0160	REAR INFRARED PIECE	1
<u>9</u>	LSYF0367	LAMP COVER UNIT	1
<u>10</u>	LSYF0403	LENS CAP UNIT	1
<u>11</u>	LSMP0226	BOTTOM CASE,PLASTIC	1
<u>12</u>	LSMP0194	CONNECTOR STAY	1
<u>13</u>	LSMA0329	FRONT INFRARED PLATE,STEEL	1
<u>14</u>	LSYF0321	HANDLE PLATE UNIT	1
<u>15</u>	LSMC0078	FINGER CLIP	1
<u>17</u>	LSYF0322	FOOT UNIT	1
<u>23</u>	LSMT0043	CUSHION,POLYURETHANE-NYLON	1
<u>24</u>	LSMT0044	CUSHION,POLYURETHANE-NYLON	1
<u>26</u>	LSDL0054	PROJECTION LENS	2 PT-L759VU/VE/ PT-L1759V
26	LSDL0086	PROJECTION LENS	2 PT-L759XU/XE/ PT-L1759X
<u>28</u>	LSMP0335	LAMP HOUSE	1
<u>29</u>	LSMC0085	EARTH SPRING	1
<u>30</u>	LSMC0087	EARTH SPRING	1
<u>31</u>	LSSC0292	SHIELD SHEET A,AL	1
<u>32</u>	LSSC0351	PLATE,STEEL	1
<u>36</u>	LSYH0015	HANDLE UNIT	1
<u>37</u>	LSSC0260	SHIELD TAPE	1
<u>38</u>	LSSC0259	SHIELD TAPE	1
<u>39</u>	LSSC0258	SHIELD TAPE	1

Ref. No.	Part No.	Part Name & Description	Remarks
41	LSYF0324	FILTER COVER UNIT	1
48	LSXA0387	LIQUID CRYSTAL DISPLAY GREEN UNIT	2 PT-L759VU/VE/ PT-L1759V
48	LSXA0384	LIQUID CRYSTAL DISPLAY GREEN UNIT	2 PT-L759VU/VE/ PT-L1759V
48	LSXA0390	LIQUID CRYSTAL DISPLAY GREEN UNIT	2 PT-L759XU/XE/ PT-L1759X
48	LSXA0393	LIQUID CRYSTAL DISPLAY GREEN UNIT	2 PT-L759XU/XE/ PT-L1759X
49	LSXA0386	LIQUID CRYSTAL DISPLAY RED UNIT	2 PT-L759VU/VE/ PT-L1759V
49	LSXA0383	LIQUID CRYSTAL DISPLAY RED UNIT	2 PT-L759VU/VE/ PT-L1759V
49	LSXA0392	LIQUID CRYSTAL DISPLAY RED UNIT	2 PT-L759XU/XE/ PT-L1759X
49	LSXA0389	LIQUID CRYSTAL DISPLAY RED UNIT	2 PT-L759XU/XE/ PT-L1759X
50	LSXA0388	LIQUID CRYSTAL DISPLAY BLUE UNIT	2 PT-L759VU/VE/ PT-L1759V
50	LSXA0385	LIQUID CRYSTAL DISPLAY BLUE UNIT	2 PT-L759VU/VE/ PT-L1759V
50	LSXA0394	LIQUID CRYSTAL DISPLAY BLUE UNIT	2 PT-L759XU/XE/ PT-L1759X
50	LSXA0391	LIQUID CRYSTAL DISPLAY BLUE UNIT	2 PT-L759XU/XE/ PT-L1759X
56	LSMX0066	RIVET, NYLON	3
57	LSMZ0224	TOP BARRIER	▲ 1
58	LSMZ0230	SWITCH BARRIER	▲ 1
59	LSMZ0170	BARRIER	▲ 1,2
60	LSMZ0233	BARRIER	▲ 1
67	LSQL0980	CAUTION LABEL TOP	1
68	LSQL0978	CAUTION LABEL BOTTOM-A	1 PT-L1759V/X
68	LSQL0979	CAUTION LABEL BOTTOM-A	1 PT-L759VU/VE/ XU/XE
69	LSQL1214	CAUTION LABEL BOTTOM-B	1 PT-L759VU
69	LSQL1215	CAUTION LABEL BOTTOM-B	1 PT-L759VE
69	LSQL1216	CAUTION LABEL BOTTOM-B	1 PT-L759XU
69	LSQL1217	CAUTION LABEL BOTTOM-B	1 PT-L759XE
74	LSQL0981	CAUTION LABEL BOTTOM-C	1
75	LSQL1209	CAUTION LABEL BOTTOM-D	1
76	LSQL0781	FUSE LABEL	1
79	LSQL0903	LABEL	▲ 1 PT-L1759V/ X
83	LSMP0193	LAMP AIR DUCT	1
88	LSYF0319	SPEAKER UNIT	1
89	LSMA0335	FAN PLATE,STEEL	1
93	VMFS0129	SHEET, NYLON-RAYON	1
98	VMFS0321	SHEET, NYLON-RAYON	1
99	LSMX0138	SPACER	1
101	LSPG1179	PACKING CASE,PAPER	4 PT-L759VU
101	LSPG1180	PACKING CASE,PAPER	4 PT-L759VE
101	LSPG1181	PACKING CASE,PAPER	4 PT-L1759V
101	LSPG1183	PACKING CASE,PAPER	4 PT-L759XU
101	LSPG1184	PACKING CASE,PAPER	4 PT-L759XE
101	LSPG1185	PACKING CASE,PAPER	4 PT-L1759X

Ref. No.	Part No.	Part Name & Description	Remarks
102	LSPN0113	TOP CUSHION,STYROFOAM	4
103	LSPN0114	BOTTOM CUSHION FRONT,STYROFOAM	4
104	LSPN0115	BOTTOM CUSHION REAR,STYROFOAM	4
105	VPFS0131	BAG,POLYETHYLENE	4
106	LSQF0483	FAN BAG	4 PT-L759VU/XU
106	LSQF0484	FAN BAG	4 PT-L759VE/XE
106	LSQF0492	FAN BAG	4 PT-L1759V/X
107	LRQ90044	INFRARED REMOTE CONTROL UNIT	▲ 4 PT-L759VU/VE/XU/XE
107	LRQ90045	INFRARED REMOTE CONTROL UNIT	▲ 4 PT-L1759V/X
108	LSJA0308	POWER CORD W/PLUG	▲ 4 PT-L759VU/XU
109	VJAS0188	POWER CORD W/PLUG	▲ 4 PT-L759VE/XE
110	VJAS0189	POWER CORD W/PLUG	▲ 4 PT-L759VE/XE
111	LSJA0239	VGA CABLE W/PLUG	4
114	LSJA0074	VIDEO CABLE W/PLUG	4
116	LSJA0240	AUDIO CABLE W/PLUG	4
125	LSJA0307	MAC ADAPTOR	4
126	LSJA0212	PS/2 MOUSE CABLE W/PLUG	4
127	LSJA0214	VGA MOUSE CABLE W/PLUG	4
128	LSJA0210	POWER CORD W/PLUG	▲ 4 PT-L1759V/X
129	LSJA0305	USB CABLE W/PLUG	4
130	K1HA24DA0003	DVI CABLE W/PLUG	4 PT-L759XU/XE/PT-L1759X
136	LSPG0861	PACKING CASE,PAPER	4 PT-L1759V/X
137	LSVQ0022	BATTERY COVER	4 PT-L759VU/VE/XU/XE
137	LSVQ0023	BATTERY COVER	4 PT-L1759V/X
138	LSFT0275	INSTRUCTION BOOK CD-ROM	4
139	LSQT0483A	INSTRUCTION BOOK	4 PT-L759VU/XU
139	LSQT0484A	INSTRUCTION BOOK / (ENGLISH/GERMAN/FRENCH / ITALIAN/SPANISH)	4 PT-L759VE/XE
139	LSQT0484B	INSTRUCTION BOOK / (ENGLISH/GERMAN/FRENCH / ITALIAN/SPANISH/KOREAN / RUSSIAN)	4 PT-L759VE/XE
139	LSQT0492A	INSTRUCTION BOOK	4 PT-L1759V/X
219	VMFS0277	SHEET,NYLON-RAYON	2
220	LSMA0340	BLIND PLATE	2
221	LSXA0395	POLARIZER RED UNIT	2
222	LSXA0396	POLARIZER GREEN UNIT	2
223	LSXA0397	POLARIZER BLUE UNIT	2
231	LSMK0017	OPTICAL BLOCK	2
232	LSDL0145	DICHROIC PRISM UNIT	2 PT-L759VU/VE/PT-L1759V
232	LSDL0146-T	DICHROIC PRISM UNIT	2 PT-L759XU/XE/PT-L1759X
234	LSMA0328	FAN PLATE,STEEL	2
235	LSMP0184	DUCT	2
236	LSMP0196	LAMP AIR DUCT	2
237	LSMF0025	SIDE FILTER	2
238	LSMP0185	DUCT COVER	2

Ref. No.	Part No.	Part Name & Description	Remarks
<u>239</u>	LSMP0186	DUCT PIECE	2
<u>247</u>	LSMC0074	PRISM SPRING	2
<u>249</u>	LSMF0027	DUCT FILTER 1	2
<u>250</u>	LSMF0028	DUCT FILTER 2	2
<u>251</u>	LSXA0400	OPTICAL BASE UNIT	2 PT-L759VU/VE/ PT-L1759V
251	LSXA0404	OPTICAL BASE UNIT	2 PT-L759XU/XE/ PT-L1759X
<u>252</u>	LSXA0414	OPTICAL BLOCK UNIT	2
<u>271</u>	FBL09A12HS	LAMP FAN-1	▲ 1
<u>272</u>	LSJA0315	FAN CORD W/PLUG,DC 13.5V	1
<u>273</u>	LSJA0234	SPEAKER CORD W/PLUG,12VPP	1
<u>274</u>	LSJA0235	FILTER SW UNIT,DC 5V	1
<u>275</u>	FAL3F12LLSA	LAMP FAN-2	▲ 2
<u>276</u>	LSRF0006	DUCT FAN	▲ 2
<u>277</u>	LSDL0140	POLARIZER RED	2
<u>278</u>	LSDL0142	POLARIZER BLUE	2 PT-L759VU/VE/ PT-L1759V
278	LSDL0144	SUB POLARIZER BLUE	2 PT-L759XU/XE/ PT-L1759X
<u>279</u>	LSDL0141	POLARIZER GREEN	2 PT-L759VU/VE/ PT-L1759V
279	LSDL0143	SUB POLARIZER GREEN	2 PT-L759XU/XE/ PT-L1759X
<u>280</u>	LSMP0342	POLARIZER HOLDER	2
405	XTV3+8GFR	TAPPING SCREW,STEEL	1
407	XTB3+7FFZ	TAPPING SCREW,STEEL	1
408	XTV3+30J	TAPPING SCREW,STEEL	1
409	XTN3+4F	TAPPING SCREW,STEEL	1,3
413	XTB2+6FFR	TAPPING SCREW,STEEL	1
419	XTB4+15AFR	TAPPING SCREW,STEEL	1
420	LSHD0030	SCREW,STEEL	1
<u>421</u>	XUC3FP	E-RING,STEEL	1
426	XTN3+12GFR	TAPPING SCREW,STEEL	1
428	XSB3+6FR	SCREW,STEEL	1
429	XYE3+FF6	SCREW W/WASHER,STEEL	1,3
436	XTB4+8FFZ	TAPPING SCREW,STEEL	1
443	XTW3+6MR	TAPPING SCREW,STEEL	1
451	XSN4+10FZ	SCREW,STEEL	2
454	XSN3+6FZ	SCREW,STEEL	2
457	XSB4+35	SCREW,STEEL	2
458	XSN3+4FR	SCREW,STEEL	2
460	XYN3+F6FZ	SCREW W/WASHER,STEEL	2
462	XTN2+4GFR	TAPPING SCREW,STEEL	2
470	XSN4+8FZ	SCREW,STEEL	2
472	XYN3+K6FZ	SCREW W/WASHER,STEEL	2
473	XSN3+8FZ	SCREW,STEEL	2
<u>474</u>	XWE3D7	WASHER,STEEL	2
475	XTN2+8GFZ	TAPPING SCREW,STEEL	2
490	LSHD0062	SCREW,STEEL	1
494	XSB3+8FZ	SCREW,STEEL	1
495	XTB3+8GFZ	SCREW,STEEL	1
496	XTV3+20J	TAPPING SCREW,STEEL	3

Ref. No.	Part No.	Part Name & Description	Remarks
<u>497</u>	LSHD0078	SCREW,STEEL	1 PT-L759XU/XE/ PT-L1759X
498	XYN4+C6FN	SCREW W/WASHER,STEEL	3
499	XSN2+4FZ	SCREW,STEEL	2
<u>701</u>	LSKF0390	JACK COVER	1 PT-L759VU/VE/ PT-L1759V
701	LSKF0391	JACK COVER	1 PT-L759XU/XE/ PT-L1759X
<u>702</u>	LSMA0330	JACK PLATE,STEEL	1
<u>703</u>	GP1U292Q	INFRARED RECEIVER UNIT	1
<u>704</u>	VMTS0035	SHEET,NYLON-RAYON	1
<u>705</u>	VMFS0108	SHEET,NYLON-RAYON	1
<u>706</u>	LSMX0063	SPACER	1
<u>707</u>	VMFS0122	SHEET,NYLON-RAYON	1
<u>711</u>	LSEE0004	TEMPERATURE FUSE UNIT	3
<u>712</u>	KGLS-5RF	RIVET,NYLON	3
<u>713</u>	KGPS-5RF	SPACER	3
<u>714</u>	LSMA0435	BALLAST CASE A,STEEL	▲ 3
<u>715</u>	LSMP0195	BALLAST PIECE	3
<u>716</u>	LSMZ0221	BALLAST BARRIER A4	▲ 3
<u>717</u>	LSMZ0248	BALLAST BARRIER A1	▲ 3
<u>718</u>	LSMZ0250	BALLAST BARRIER A3	▲ 3
<u>719</u>	LSMZ0262	BALLAST BARRIER A2	▲ 3
<u>720</u>	LSMZ0263	BALLAST BARRIER A5	▲ 3
<u>721</u>	LSQL0904	CAUTION LABEL	3
<u>722</u>	VZFS0006	CLAMPER	3
<u>723</u>	FBA06T24HP	POWER FAN	▲ 3
<u>724</u>	KGLS-6RF	LOCKING CARD SPACER	3
<u>725</u>	LSMA0420	BALLAST CASE B,STEEL	3
<u>727</u>	LSMZ0206	BALLAST BARRIER B1	▲ 3
<u>728</u>	LSMZ0207	BALLAST BARRIER B2	▲ 3
<u>729</u>	LSMZ0222	BALLAST BARRIER B3	▲ 3
<u>730</u>	LSMZ0251	BALLAST BARRIER B4	▲ 3
<u>731</u>	LSMZ0264	BALLAST BARRIER B5	▲ 3
<u>741</u>	PNA4611M00XD	INFRARED RECEIVER UNIT	1
<u>E10</u>	LSEP3043A1	MAIN C.B.A.	RTL 1 PT- L759XU/XE
E10	LSEP3043C1	MAIN C.B.A.	RTL 1 PT-L1759X
E10	LSEP3043F1	MAIN C.B.A.	RTL 1 PT- L759VU/VE
E10	LSEP3043H1	MAIN C.B.A.	RTL 1 PT-L1759V
<u>E20</u>	LSEB1046B1	POWER C.B.A.	RTL 3
<u>E21</u>	LSEP1046B1	MAIN POWER C.B.A. NR	3
<u>E22</u>	LSEP1048A1	LINE-FILTER C.B.A. NR	3
<u>E23</u>	LSEB1049A1	FILTER C.B.A. NR	3
<u>E24</u>	LSEP1047A1	SYSTEM POWER C.B.A. NR	3
<u>E30</u>	LSEP0A10A1	INFRARED SENSOR FRONT C.B.A.	RTL 1
<u>E40</u>	LSEP0A11A1	THERMISTOR C.B.A.	RTL 2
		SERVICE FIXTURES AND TOOLS	

Ref. No.	Part No.	Part Name & Description	Remarks
	LSUA0024	EXTENSION CABLE	

10.3. ELECTRICAL REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
PRINTED CIRCUIT BOARD ASSEMBLY			
E10	LSEP3043A1	MAIN C.B.A.	E.S.D. RTL PT-L759XU/XE
E10	LSEP3043C1	MAIN C.B.A.	E.S.D. RTL PT-L1759X
E10	LSEP3043F1	MAIN C.B.A.	E.S.D. RTL PT-L759VU/VE
E10	LSEP3043H1	MAIN C.B.A.	E.S.D. RTL PT-L1759V
E20	LSEB1046B1	POWER C.B.A.	RTL
E21	LSEP1046B1	MAIN POWER C.B.A. NR	
E22	LSEP1048A1	LINE-FILTER C.B.A. NR	
E23	LSEB1049A1	FILTER C.B.A. NR	
E24	LSEP1047A1	SYSTEM POWER C.B.A. NR	
E30	LSEP0A10A1	INFRARED SENSOR FRONT C.B.A.	RTL
E40	LSEP0A11A1	THERMISTOR C.B.A.	RTL
		MAIN C.B.A.	
		INTEGRATED CIRCUITS	
IC1901	PQ20VZ1U	IC, LINEAR	
IC1902	PQ12DZ1U	IC, LINEAR	
IC1961	PQ20VZ1U	IC, LINEAR	
IC1962	PQ20VZ1U	IC, LINEAR	
IC2001	C0CBABG00018	IC, LINEAR	
IC2003	TC74VHC125FT	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2003	SNLV125APW	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2006	UPD65945-071	IC, CMOS STANDARD LOGIC	E.S.D.
IC2008	MSM514265C50	IC, 4M D RAM	E.S.D. PT-L759XU/XE/PT-1759X
IC2008	MSM514265C60	IC, 4M D RAM	E.S.D. PT-L759XU/XE/PT-1759X
IC2009	C1AB00001345	IC, LINEAR	
IC2010	L1087DTX-3.3	IC, LINEAR	
IC2012	TC90A46F	IC, LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2015	MSM16V16SFT1	IC, 16M SD RAM	E.S.D.
IC2016	C0JBAZ001137	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2016	C0JBAZ000803	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X

Ref. No.	Part No.	Part Name & Description	Remarks
IC2019	C0JBAZ001137	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2019	C0JBAZ000803	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2020	MSM16V16SFT1	IC, 16M SD RAM	E.S.D.
IC2022	MSM16V16SFT1	IC, 16M SD RAM	E.S.D.
IC2023	IP00C712	IC, LOGIC	E.S.D.
IC2025	MB90098A-114	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759VU/VE/XU/XE
IC2025	MB90098A-119	IC, CMOS STANDARD LOGIC	E.S.D. PT-L1759V/X
IC2033	SN74LV14APWR	IC, CMOS STANDARD LOGIC	E.S.D.
IC2033	TC74VHC14FT	IC, CMOS STANDARD LOGIC	E.S.D.
IC2033	74VHC14MTCX	IC, CMOS STANDARD LOGIC	E.S.D.
IC2301	SN74AHC157PW	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2301	74VHC157MTCX	IC, CMOS STANDARD LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2302	TC7WH74FUTL	IC, CMOS STANDARD LOGIC	E.S.D.
IC2302	SN74AHC2G74	IC, CMOS STANDARD LOGIC	E.S.D.
IC2401	L1087DTX-3.3	IC, LINEAR	
IC2402	AN78L05M-E1	IC, LINEAR	
IC2403	C0FBAD000065	IC, LINEAR	
IC2503	MB40C950VPFV	IC, CMOS STANDARD LOGIC	E.S.D.
IC2504	C0FBBD000116	IC, LINEAR	
IC2505	AN78L05M-E1	IC, LINEAR	
IC2506	AN78L05M-E1	IC, LINEAR	
IC2701	AT24C02NSCTL	IC, 2K EEP ROM	E.S.D. PT-L759XU/XE/PT-1759X
IC2702	L1087DTX-3.3	IC, LINEAR	PT-L759XU/XE/PT-1759X
IC2703	C1AB00001482	IC, LOGIC	E.S.D. PT-L759XU/XE/PT-1759X
IC2801	C1AB00001521	IC, LOGIC	E.S.D.
IC2802	SN7AH2G14HCR	IC, CMOS STANDARD LOGIC	E.S.D.
IC2802	TC7WH14FU	IC, CMOS STADNARD LOGIC	E.S.D.
IC3001	AT24C21SCT25	IC, 2K EEP ROM	E.S.D.
IC3002	C0JBAR000338	IC, CMOS STANDARD LOGIC	E.S.D.
IC3002	BU4053BCF	IC, CMOS STANDARD LOGIC	E.S.D.
IC3002	CD4053BCMX	IC, LINEAR	
IC3003	TC74HC4053AF	IC, CMOS STANDARD LOGIC	E.S.D.
IC3004	74F125SJX	IC, LOGIC	E.S.D.
IC3005	AT24C21SCT25	IC, 2K EEP ROM	E.S.D.
IC3006	AD8055ART	IC, LINEAR	
IC3007	C0DBAEA00003	IC, LINEAR	
IC3008	BA7657F-E2	IC, LINEAR	
IC3009	M52347FP	IC, LINEAR	
IC3010	AD8055ART	IC, LINEAR	
IC3011	AD8055ART	IC, LINEAR	
IC3502	ET6050S0B	IC, LINEAR	

Ref. No.	Part No.	Part Name & Description	Remarks
IC3503	ET6050S0B	IC, LINEAR	
IC3504	ET6050S0B	IC, LINEAR	
IC3505	ET6050S0B	IC, LINEAR	
IC3506	ET6050S0B	IC, LINEAR	
IC3507	ET6050S0B	IC, LINEAR	
IC3508	C0JBAR000338	IC, CMOS STANDARD LOGIC	E.S.D.
IC3508	BU4053BCF	IC, CMOS STANDARD LOGIC	E.S.D.
IC3508	CD4053BCMX	IC, LINEAR	
IC3509	LC4105V-TLM	IC, CMOS STANDARD LOGIC	E.S.D.
IC3510	LC4105V-TLM	IC, CMOS STANDARD LOGIC	E.S.D.
IC4001	C0JBAR000338	IC, CMOS STANDARD LOGIC	E.S.D.
IC4001	BU4053BCF	IC, CMOS STANDARD LOGIC	E.S.D.
IC4001	CD4053BCMX	IC, LINEAR	
IC4002	AN5265	IC, LINEAR	
IC6002	SN74LV14APWR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6002	TC74VHC14FT	IC, CMOS STANDARD LOGIC	E.S.D.
IC6002	74VHC14MTCX	IC, CMOS STANDARD LOGIC	E.S.D.
IC6003	SN74LV14APWR	IC, CMOS STANDARD LOGIC	E.S.D.
IC6003	TC74VHC14FT	IC, CMOS STANDARD LOGIC	E.S.D.
IC6003	74VHC14MTCX	IC, CMOS STANDARD LOGIC	E.S.D.
IC6004	UPD4721GS	IC, RS232C DRIVER	E.S.D.
IC6005	TWM7000-15	IC, 4BIT MICROCONTROLLER	E.S.D.
IC6006	SN74AHT541PW	IC, CMOS STANDARD LOGIC	E.S.D.
IC6006	TC74VHCT541T	IC, CMOS STANDARD LOGIC	E.S.D.
IC6007	HD64F2148FS7	IC, 16BIT MICROCONTROLLER	E.S.D. PT-L759VU/VE/XU/XE
IC6007	HD64F2148FS8	IC, 16BIT MICROCONTROLLER	E.S.D. PT-L1759V/X
IC6008	MN13821-RTX	IC, LOGIC	E.S.D.
IC6009	AT24C02NSCTL	IC, 2K EEP ROM	E.S.D.
IC6010	AT24C04NSCTL	IC, 4K EEP ROM	E.S.D.
IC6601	D789800GBA30	IC, 8BIT MICROCONTROLLER	E.S.D.
IC6602	MN13821-MTX	IC, LOGIC	E.S.D.
		TRANSISTORS	
Q1901	2SD1819A	TRANSISTOR SI NPN CHIP	
Q1901	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q1902	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q1902	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q1904	HAT2043R-EL	TRANSISTOR FET CHIP	
Q1906	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q1906	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q2501	2SC563200L	TRANSISTOR SI NPN CHIP	
Q2501	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q2501	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q2501	2SC558000L	TRANSISTOR SI NPN CHIP	
Q2502	2SC563200L	TRANSISTOR SI NPN CHIP	
Q2502	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q2502	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q2502	2SC558000L	TRANSISTOR SI NPN CHIP	
Q2503	2SC563200L	TRANSISTOR SI NPN CHIP	
Q2503	2SC4774T106S	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q2503	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q2503	2SC558000L	TRANSISTOR SI NPN CHIP	
Q2504	2SB1218A	TRANSISTOR SI PNP CHIP	
Q2504	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q2505	2SB1218A	TRANSISTOR SI PNP CHIP	
Q2505	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q2506	2SB1218A	TRANSISTOR SI PNP CHIP	
Q2506	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q2507	2SC563200L	TRANSISTOR SI NPN CHIP	
Q2507	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q2507	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q2507	2SC558000L	TRANSISTOR SI NPN CHIP	
Q2508	2SC563200L	TRANSISTOR SI NPN CHIP	
Q2508	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q2508	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q2508	2SC558000L	TRANSISTOR SI NPN CHIP	
Q2509	2SC563200L	TRANSISTOR SI NPN CHIP	
Q2509	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q2509	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q2509	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3007	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3007	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3008	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3008	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3008	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3008	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3009	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3009	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3010	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3010	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3011	2SB1218A(S)	TRANSISTOR SI PNP CHIP	
Q3012	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3012	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3013	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3013	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3014	UN5213	TRANSISTOR SI NPN CHIP	
Q3014	DTC144EUA106	TRANSISTOR SI NPN CHIP	
Q3014	MUN5213	TRANSISTOR SI NPN CHIP	
Q3015	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3015	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3016	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3016	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3017	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3017	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3018	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3018	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3019	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3019	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3020	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3020	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3021	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3021	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3021	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3021	2SC558000L	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q3022	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3022	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3022	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3022	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3023	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3023	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3023	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3023	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3024	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3024	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3024	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3024	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3025	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3025	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3025	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3025	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3026	2SC563200L	TRANSISTOR SI NPN CHIP	
Q3026	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q3026	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q3026	2SC558000L	TRANSISTOR SI NPN CHIP	
Q3027	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3027	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3028	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3028	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3029	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3029	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3030	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3030	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3031	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3031	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3032	2SB1218A	TRANSISTOR SI PNP CHIP	
Q3032	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3033	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3033	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3034	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3034	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3036	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3036	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3039	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3039	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3040	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3040	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3501	2SD1819A	TRANSISTOR SI NPN CHIP	
Q3501	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3502	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3502	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3503	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3503	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3504	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3504	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3505	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3505	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3506	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3506	2SC4081T106R	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q3507	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3507	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3508	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3508	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3509	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3509	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3510	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3510	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3511	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3511	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3512	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3512	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3513	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3513	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3514	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3514	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3515	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3515	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3516	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3516	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3517	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3517	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q3518	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q3518	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q3519	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q3519	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4001	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4001	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4003	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4003	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4004	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4004	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4006	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4006	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4007	2SB1218A	TRANSISTOR SI PNP CHIP	
Q4007	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4008	2SB1218A	TRANSISTOR SI PNP CHIP	
Q4008	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4009	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4009	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4010	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4010	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4011	2SB1218A	TRANSISTOR SI PNP CHIP	
Q4011	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4012	2SD1819A(R)	TRANSISTOR SI NPN CHIP	
Q4013	2SD1819A(R)	TRANSISTOR SI NPN CHIP	
Q4014	2SB1218A	TRANSISTOR SI PNP CHIP	
Q4014	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4015	2SB1218A	TRANSISTOR SI PNP CHIP	
Q4015	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4016	2SD1119(R)	TRANSISTOR SI NPN CHIP	
Q4017	UN5112	TRANSISTOR SI PNP CHIP	
Q4017	DTA124EUA106	TRANSISTOR SI PNP CHIP	
Q4017	MUN5112T1	TRANSISTOR SI PNP CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q4018	UN5213	TRANSISTOR SI PNP CHIP	
Q4018	DTC144EUA106	TRANSISTOR SI NPN CHIP	
Q4018	MUN5213	TRANSISTOR SI NPN CHIP	
Q4019	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q4019	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4020	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q4020	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q4021	2SB1218A	TRANSISTOR SI PNP CHIP	
Q4021	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q4022	2SD1819A	TRANSISTOR SI NPN CHIP	
Q4022	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5001	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5001	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5002	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5002	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5004	2SC563200L	TRANSISTOR SI NPN CHIP	
Q5004	2SC4774T106S	TRANSISTOR SI NPN CHIP	
Q5004	2SC4965YV-TL	TRANSISTOR SI NPN CHIP	
Q5004	2SC558000L	TRANSISTOR SI NPN CHIP	
Q5006	2SB1218ARS	TRANSISTOR SI PNP CHIP	
Q5006	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q5008	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5008	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5009	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5009	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5010	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5010	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5011	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5011	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5012	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5012	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q5016	2SD1819A(R,S)	TRANSISTOR SI NPN CHIP	
Q5016	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q6001	2SD1819A	TRANSISTOR SI NPN CHIP	
Q6001	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q6002	2SD1819A	TRANSISTOR SI NPN CHIP	
Q6002	2SC4081T106R	TRANSISTOR SI NPN CHIP	
Q6003	UN5213	TRANSISTOR SI PNP CHIP	
Q6003	DTC144EUA106	TRANSISTOR SI NPN CHIP	
Q6003	MUN5213	TRANSISTOR SI NPN CHIP	
Q6004	UN5113	TRANSISTOR SI PNP CHIP	
Q6004	DTA144EUA106	TRANSISTOR SI PNP CHIP	
Q6004	MUN5113T1	TRANSISTOR SI PNP CHIP	
Q6005	UN5113	TRANSISTOR SI PNP CHIP	
Q6005	DTA144EUA106	TRANSISTOR SI PNP CHIP	
Q6005	MUN5113T1	TRANSISTOR SI PNP CHIP	
Q6006	UN5113	TRANSISTOR SI PNP CHIP	
Q6006	DTA144EUA106	TRANSISTOR SI PNP CHIP	
Q6006	MUN5113T1	TRANSISTOR SI PNP CHIP	
Q6007	2SB1218A	TRANSISTOR SI PNP CHIP	
Q6007	2SA1576A106R	TRANSISTOR SI PNP CHIP	
Q6008	2SB1218A	TRANSISTOR SI PNP CHIP	
Q6008	2SA1576A106R	TRANSISTOR SI PNP CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
		DIODES	
D1961	MA142WK	DIODE SI CHIP	
D1961	DAN202UT106	DIODE SI CHIP	
D1962	MA111	DIODE SI CHIP	
D1962	1SS355TE-17	DIODE SI CHIP	
D2701	MAZT068H0L	DIODE ZENER CHIP 6.8V	PT-L759XU/XE/ PT-1759X
D2701	DF3A6.8FE	DIODE ZENER CHIP 6.8V	PT-L759XU/XE/ PT-1759X
D3001	DF5A6.8F	DIODE ZENER CHIP 6.8V	
D3001	NNCD6.2G-T1	DIODE ZENER CHIP 6.2V	
D3002	DF5A6.8F	DIODE ZENER CHIP 6.8V	
D3002	NNCD6.2G-T1	DIODE ZENER CHIP 6.2V	
D4001	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D4001	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D4002	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D4002	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D4003	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D4003	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D4004	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D4004	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D4005	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D4005	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D4006	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D4006	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D4007	MA142WK	DIODE SI CHIP	
D4007	DAN202UT106	DIODE SI CHIP	
D4007	MA141WK	DIODE SI CHIP	
D4008	MA111	DIODE SI CHIP	
D4008	1SS355TE-17	DIODE SI CHIP	
D4009	MA111	DIODE SI CHIP	
D4009	1SS355TE-17	DIODE SI CHIP	
D4010	MA8100	DIODE ZENER CHIP 10V	
D4011	MA111	DIODE SI CHIP	
D4011	1SS355TE-17	DIODE SI CHIP	
D5002	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D5002	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D5003	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D5003	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D5004	MAZT068H0L	DIODE ZENER CHIP 6.8V	
D5004	DF3A6.8FE	DIODE ZENER CHIP 6.8V	
D6001	DF5A6.8F	DIODE ZENER CHIP 6.8V	
D6001	NNCD6.2G-T1	DIODE ZENER CHIP 6.2V	
D6002	DF5A6.8F	DIODE ZENER CHIP 6.8V	
D6002	NNCD6.2G-T1	DIODE ZENER CHIP 6.2V	
D6003	RD13S	DIODE ZENER CHIP 13V	
D6004	RD13S	DIODE ZENER CHIP 13V	
D6009	NNCD12F-T1B	DIODE ZENER CHIP 12V	
D6013	RD6.2S	DIODE ZENER CHIP 6.2V	
D6014	NNCD12F-T1B	DIODE ZENER CHIP 12V	
D6016	RD13S	DIODE ZENER CHIP 13V	
D6017	RD13S	DIODE ZENER CHIP 13V	
D6018	MA142WK	DIODE SI CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
R1962	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R1963	VRJSD3D1002	MGF CHIP 1/16W 10K	
R1965	VRJSD3D1001	MGF CHIP 1/16W 1K	
R1966	VRJSD3D6801	MGF CHIP 1/16W 6.8K	
R1967	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R1968	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R1969	VRJSD3D1002	MGF CHIP 1/16W 10K	
R1971	VRJSD3D1001	MGF CHIP 1/16W 1K	
R1972	VRJSD3D6801	MGF CHIP 1/16W 6.8K	
R1973	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R1974	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R1975	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R1977	ERJ14Y0R00H	MGF CHIP 1/4W 0	
R1978	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R1979	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2015	ERJ3GEYJ331V	MGF CHIP 1/16W 330	
R2016	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2017	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R2018	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2019	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2020	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2021	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2022	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2023	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2024	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2025	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2026	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2027	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2028	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2030	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2031	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2032	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2033	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2034	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2035	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2039	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2043	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	PT-L759XU/XE/ PT-1759X
R2048	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2049	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2050	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2051	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2052	ERJ3GEYJ470V	MGF CHIP 1/16W 47	
R2055	ERJ3GEYJ120V	MGF CHIP 1/16W 12	
R2058	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2059	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2060	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2062	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2064	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2065	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2067	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2068	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2070	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	

Ref. No.	Part No.	Part Name & Description	Remarks
R2073	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2081	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2082	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2084	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2085	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2086	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2087	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2088	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2089	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2090	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2091	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R2092	ERJ3GEYJ331V	MGF CHIP 1/16W 330	
R2093	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2094	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2095	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2096	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2097	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2100	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2103	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2106	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2107	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2108	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2111	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2112	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2113	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2114	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2115	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2116	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2117	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2118	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2119	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2120	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R2121	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2122	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2123	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2124	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2125	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2127	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2128	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R2132	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2133	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2139	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R2140	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R2141	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R2142	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2143	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R2144	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2146	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2147	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2148	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2149	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2150	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2151	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2155	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R2160	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2161	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2162	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2163	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2164	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2165	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2166	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2167	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R2205	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2206	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2207	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2208	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2209	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2210	ERJ3GEYJ470V	MGF CHIP 1/16W 47	
R2211	ERJ3GEYJ470V	MGF CHIP 1/16W 47	
R2212	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2213	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2221	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2237	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2238	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2241	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	PT-L759XU/XE/ PT-1759X
R2242	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2243	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2245	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759VU/VE/ PT-1759V
R2246	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759VU/VE/ PT-1759V
R2247	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759VU/VE/ PT-1759V
R2248	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759VU/VE/ PT-1759V
R2250	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R2251	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	PT-L759XU/XE/ PT-1759X
R2252	ERJ3GEYJ470V	MGF CHIP 1/16W 47	PT-L759XU/XE/ PT-1759X
R2253	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2301	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759VU/VE/ PT-1759V
R2302	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759VU/VE/ PT-1759V
R2303	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	PT-L759VU/VE/ PT-1759V

Ref. No.	Part No.	Part Name & Description	Remarks
R2305	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759VU/VE/ PT-1759V
R2306	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759VU/VE/ PT-1759V
R2307	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2308	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2309	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2310	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2311	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2312	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2313	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2314	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2354	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2355	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2356	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2357	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2360	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2361	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2362	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759VU/VE/ PT-1759V
R2401	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R2402	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R2403	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R2404	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2406	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2408	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2409	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2410	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2411	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R2412	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2413	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2414	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2415	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2416	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2417	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2418	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2419	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2420	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2421	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2422	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2423	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2424	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2425	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2426	MNR14EABJ470	ARRAY CHIP 1/16W 47	
R2427	ERJ3GEYJ470V	MGF CHIP 1/16W 47	
R2429	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2430	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2435	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2436	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2501	MNR14EABJ220	ARRAY CHIP 1/4W 22	



Ref. No.	Part No.	Part Name & Description	Remarks
R2502	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2503	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2504	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2520	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2521	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2525	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2528	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2533	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2534	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R2535	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2536	MNR14EABJ220	ARRAY CHIP 1/4W 22	
R2537	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R2538	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R2539	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R2540	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R2541	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R2542	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R2543	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R2544	ERJ3GEYJ123V	MGF CHIP 1/16W 12K	
R2545	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R2547	ERJ3GEYJ123V	MGF CHIP 1/16W 12K	
R2548	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R2550	ERJ3GEYJ123V	MGF CHIP 1/16W 12K	
R2551	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R2552	VRJSD3D3301	MGF CHIP 1/16W 3.3K	
R2553	VRJSD3D3301	MGF CHIP 1/16W 3.3K	
R2554	VRJSD3D3301	MGF CHIP 1/16W 3.3K	
R2555	ERJ3GEYJ683V	MGF CHIP 1/16W 68K	
R2556	ERJ3GEYJ683V	MGF CHIP 1/16W 68K	
R2557	ERJ3GEYJ683V	MGF CHIP 1/16W 68K	
R2558	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R2559	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2560	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R2561	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2562	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R2563	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2564	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R2565	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R2566	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2567	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2568	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2569	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R2570	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R2571	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R2572	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R2573	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R2574	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R2575	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
R2576	ERJ3GEYJ750V	MGF CHIP 1/16W 75	
R2577	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
R2578	ERJ3GEYJ750V	MGF CHIP 1/16W 75	
R2579	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
R2580	ERJ3GEYJ750V	MGF CHIP 1/16W 75	
R2581	ERJ3GEYJ182V	MGF CHIP 1/16W 1.8K	

Ref. No.	Part No.	Part Name & Description	Remarks
R2582	ERJ3GEYJ182V	MGF CHIP 1/16W 1.8K	
R2583	ERJ3GEYJ182V	MGF CHIP 1/16W 1.8K	
R2584	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
R2585	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
R2586	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
R2701	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	PT-L759XU/XE/ PT-1759X
R2702	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	PT-L759XU/XE/ PT-1759X
R2703	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	PT-L759XU/XE/ PT-1759X
R2704	ERJ3GEYJ560V	MGF CHIP 1/16W 56	PT-L759XU/XE/ PT-1759X
R2705	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	PT-L759XU/XE/ PT-1759X
R2706	ERJ3GEYJ560V	MGF CHIP 1/16W 56	PT-L759XU/XE/ PT-1759X
R2707	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2708	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2709	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2710	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2711	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2712	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2713	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2714	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2717	ERJ3GEYJ511V	MGF CHIP 1/16W 510	PT-L759XU/XE/ PT-1759X
R2718	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	PT-L759XU/XE/ PT-1759X
R2719	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2720	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2721	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2723	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	PT-L759XU/XE/ PT-1759X
R2724	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2726	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2727	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2728	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2729	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2730	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2731	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X

Ref. No.	Part No.	Part Name & Description	Remarks
R2732	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2733	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2734	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2735	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2736	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2737	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2738	ERJ3GEYJ100V	MGF CHIP 1/16W 10	PT-L759XU/XE/ PT-1759X
R2739	MNR14EABJ220	ARRAY CHIP 1/4W 22	PT-L759XU/XE/ PT-1759X
R2740	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2741	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2742	ERJ3GEYJ220V	MGF CHIP 1/16W 22	PT-L759XU/XE/ PT-1759X
R2744	ERJ3GEYJ101V	MGF CHIP 1/16W 100	PT-L759XU/XE/ PT-1759X
R2745	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	PT-L759XU/XE/ PT-1759X
R2746	ERJ3GEY0R00V	MGF CHIP 1/16W 0	PT-L759XU/XE/ PT-1759X
R2801	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R2802	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R2803	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R2804	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2808	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2809	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2810	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2813	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2814	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2815	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2816	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2818	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R2819	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2824	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2825	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2826	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R2828	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3007	ERA3YHD750V	MGF CHIP 1/16W 75	
R3008	ERA3YHD750V	MGF CHIP 1/16W 75	
R3009	ERA3YHD750V	MGF CHIP 1/16W 75	
R3014	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3015	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3016	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R3017	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R3018	ERA3YHD750V	MGF CHIP 1/16W 75	
R3019	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R3020	ERA3YHD750V	MGF CHIP 1/16W 75	
R3021	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	

Ref. No.	Part No.	Part Name & Description	Remarks
R3022	ERA3YHD750V	MGF CHIP 1/16W 75	
R3027	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3028	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R3029	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3030	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3034	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3035	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R3037	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3040	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3043	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3044	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3047	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3048	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3049	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3050	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3053	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3056	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3057	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3058	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3059	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3066	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3067	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3068	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3070	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3072	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3073	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3074	ERA3YED391V	MGF CHIP 1/16W 390	
R3075	ERA3YED391V	MGF CHIP 1/16W 390	
R3076	ERA3YED391V	MGF CHIP 1/16W 390	
R3077	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R3078	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3079	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R3080	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3081	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R3082	ERA3YED391V	MGF CHIP 1/16W 390	
R3083	ERA3YED391V	MGF CHIP 1/16W 390	
R3084	ERA3YED391V	MGF CHIP 1/16W 390	
R3085	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R3086	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R3087	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3088	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3089	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3090	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3091	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3092	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3093	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3094	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3095	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3096	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3097	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3098	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3099	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R3100	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3101	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	

Ref. No.	Part No.	Part Name & Description	Remarks
R3102	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3103	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3104	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3105	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3106	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3107	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3108	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3109	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3110	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R3112	ERJ3GEYJ182V	MGF CHIP 1/16W 1.8K	
R3113	ERJ3GEYJ182V	MGF CHIP 1/16W 1.8K	
R3114	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
R3115	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3116	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3117	ERJ3GEYJ124V	MGF CHIP 1/16W 120K	
R3118	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3119	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3120	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3121	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3122	ERJ3GEYJ681V	MGF CHIP 1/16W 680	
R3123	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3124	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R3125	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3126	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3127	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3128	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R3129	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3130	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3131	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3132	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R3133	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3134	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3135	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3136	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3137	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3138	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3139	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3140	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3141	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3142	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3143	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3144	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3145	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3146	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R3148	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	PT-L759XU/XE/ PT-1759X
R3151	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3152	ERJ3GEYJ184V	MGF CHIP 1/16W 180K	
R3153	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R3154	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R3159	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3501	VRJSD3D3302	MGF CHIP 1/16W 33K	
R3502	VRJSD3D6801	MGF CHIP 1/16W 6.8K	
R3503	ERJ3GEYJ681V	MGF CHIP 1/16W 680	

Ref. No.	Part No.	Part Name & Description	Remarks
R3504	VRJSD3D1202	MGF CHIP 1/16W 12K	
R3505	VRJSD3D1002	MGF CHIP 1/16W 10K	
R3506	ERJ3GEYJ121V	MGF CHIP 1/16W 120	
R3507	VRJSD3D3902	MGF CHIP 1/16W 39K	
R3508	VRJSD3D2202	MGF CHIP 1/16W 22K	
R3509	EVM7JSX30B23	VARIABLE CHIP	
R3510	VRJSD3D3301	MGF CHIP 1/16W 3.3K	
R3511	VRJSD3D6801	MGF CHIP 1/16W 6.8K	
R3530	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3531	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3532	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3533	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3534	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3535	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3536	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3537	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3538	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3539	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3540	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3541	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3542	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3543	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3544	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3545	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3546	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3547	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3548	ERJ3GEYJ681V	MGF CHIP 1/16W 680	
R3549	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3550	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3551	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3552	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3553	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3554	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3555	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3556	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3557	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3558	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3559	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3560	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3561	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3562	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R3563	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3564	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3565	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3566	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3567	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3568	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3569	VRJSD3D1202	MGF CHIP 1/16W 12K	
R3570	VRJSD3D1501V	MGF CHIP 1/16W 1.5K	
R3571	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R3572	VRJSD3D1202	MGF CHIP 1/16W 12K	
R3573	VRJSD3D1002	MGF CHIP 1/16W 10K	
R3574	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R3575	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	

Ref. No.	Part No.	Part Name & Description	Remarks
R3576	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3577	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3578	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3579	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3580	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3581	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3582	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3583	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R3584	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3585	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3586	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3587	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3588	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R3589	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3590	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3591	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3592	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R3593	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R3594	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R3595	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3596	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3597	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3598	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3599	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3600	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3601	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R3602	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R3603	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3604	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3605	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3606	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3607	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3608	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3609	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R3610	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R3611	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3612	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3613	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3614	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3615	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3616	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R3617	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3619	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R4001	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4003	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4004	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4005	ERJ3GEYJ394V	MGF CHIP 1/16W 390K	
R4008	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4009	ERJ3GEYJ394V	MGF CHIP 1/16W 390K	
R4010	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4012	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4013	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4015	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4016	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	

Ref. No.	Part No.	Part Name & Description	Remarks
R4017	ERJ3GEYJ394V	MGF CHIP 1/16W 390K	
R4020	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4021	ERJ3GEYJ394V	MGF CHIP 1/16W 390K	
R4022	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4024	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4025	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4026	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4027	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R4028	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R4029	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R4030	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4031	ERJ3GEYJ224V	MGF CHIP 1/16W 220K	
R4032	VRJSD3D5601	MGF CHIP 1/16W 5.6K	
R4033	VRJSD3D1002	MGF CHIP 1/16W 10K	
R4034	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4035	VRJSD3D1102	MGF CHIP 1/16W 11K	
R4036	VRJSD3D2702	MGF CHIP 1/16W 27K	
R4037	VRJSD3D1802	MGF CHIP 1/16W 18K	
R4039	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4040	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R4041	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4042	ERJ3GEYJ124V	MGF CHIP 1/16W 120K	
R4043	ERJ3GEYJ124V	MGF CHIP 1/16W 120K	
R4044	ERJ14YJ271H	MGF CHIP 1/4W 270	
R4046	ERJ3GEYJ823V	MGF CHIP 1/16W 82K	
R4047	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R4048	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R4049	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4055	ERJ3GEYJ273V	MGF CHIP 1/16W 27K	
R4056	ERJ12YJ100H	MGF CHIP 1/4W 10	
R4059	ERJ12YJ2R2H	MGF CHIP 1/2W 2.2	
R4060	ERJ12YJ2R2H	MGF CHIP 1/2W 2.2	
R4061	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R4062	ERJ3GEYJ331V	MGF CHIP 1/16W 330	
R4084	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R4085	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R4086	ERJ3GEYJ821V	MGF CHIP 1/16W 820	
R4087	ERJ3GEYJ821V	MGF CHIP 1/16W 820	
R4088	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R4089	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R4090	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4091	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R4092	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R4093	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4094	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R5001	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R5002	ERA3YHD750V	MGF CHIP 1/16W 75	
R5003	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R5004	ERA3YHD750V	MGF CHIP 1/16W 75	
R5005	ERA3YHD750V	MGF CHIP 1/16W 75	
R5006	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R5007	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R5008	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R5009	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	

Ref. No.	Part No.	Part Name & Description	Remarks
R5010	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R5011	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R5013	VRJSD3D1001	MGF CHIP 1/16W 1K	
R5015	VRJSD3D1001	MGF CHIP 1/16W 1K	
R5018	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R5019	VRJSD3D4700	MGF CHIP 1/16W 470	
R5021	VRJSD3D4700	MGF CHIP 1/16W 470	
R5023	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
R5025	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R5026	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R5027	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R5028	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R5030	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R5031	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R5033	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R5037	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R5040	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R5041	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R5042	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R5044	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R5046	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R6001	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6005	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6006	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6007	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6008	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6009	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6010	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6011	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6012	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6013	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6014	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6015	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6016	ERJ3GEYJ681V	MGF CHIP 1/16W 680	
R6017	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6018	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6019	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6020	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6021	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6022	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R6023	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6024	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6025	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6026	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6027	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6028	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6029	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6030	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6031	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6032	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6034	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6035	MNR14EABJ102	ARRAY CHIP 1/4W 1K	
R6036	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6037	ERJ3GEYJ220V	MGF CHIP 1/16W 22	

Ref. No.	Part No.	Part Name & Description	Remarks
R6038	MNR14EABJ473	ARRAY CHIP 1/4W 47K	
R6039	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R6041	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6042	VRJSD3D3302	MGF CHIP 1/16W 33K	
R6043	VRJSD3D3302	MGF CHIP 1/16W 33K	
R6044	ERJ3GEYJ220V	MGF CHIP 1/16W 22	
R6045	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
R6046	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
R6047	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6048	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6049	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6050	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6051	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R6052	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6053	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6054	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6055	MNR14EABJ473	ARRAY CHIP 1/4W 47K	
R6056	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6057	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6058	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6059	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6060	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6061	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6062	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6063	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6064	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6065	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6066	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6067	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6068	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R6069	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R6070	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6071	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6072	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6073	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6074	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6075	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6076	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6077	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6078	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6079	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6080	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6081	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6082	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6083	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6084	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6085	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R6086	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6087	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6088	ERJ3GEYJ184V	MGF CHIP 1/16W 180K	
R6089	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R6090	ERJ3GEYJ184V	MGF CHIP 1/16W 180K	
R6091	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6092	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6093	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R6094	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6095	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6096	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6097	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6098	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6099	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6100	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6101	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6102	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6103	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6104	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6105	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6106	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6107	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6108	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6109	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6110	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6111	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6112	MNR14EABJ101	ARRAY CHIP 1/4W 100	
R6113	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R6114	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R6115	ERJ6GEYJ271V	MGF CHIP 1/10W 270	
R6116	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R6117	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R6118	ERJ6GEYJ271V	MGF CHIP 1/10W 270	
R6119	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6120	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6121	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6122	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6123	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6124	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6125	ERJ14Y0R00H	MGF CHIP 1/4W 0	
R6128	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6129	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6130	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6132	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6133	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6134	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6135	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6136	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6137	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6615	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6628	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R6629	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R6630	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6631	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6632	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6633	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R6634	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
		CAPACITORS	
C1901	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C1902	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C1903	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C1904	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C1905	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C1906	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C1907	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C1908	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C1909	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C1910	ECEV1EA100S	ELECTROLYTIC CHIP 25V 10UF	
C1912	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C1914	ECEV1EA100S	ELECTROLYTIC CHIP 25V 10UF	
C1915	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C1961	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C1962	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C1963	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C1964	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C2001	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2003	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2011	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2019	ECUV1H080CCV	C CHIP 50V 8PF	
C2020	ECUV1H080CCV	C CHIP 50V 8PF	
C2031	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2032	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2033	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2034	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2035	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2038	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2039	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2043	ECST1AY106	TANTALUM CHIP 10V 10UF	PT-L759XU/XE/ PT-1759X
C2049	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2052	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2053	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2054	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2057	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2058	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2059	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2063	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2064	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2065	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2066	ECST1AY106	TANTALUM CHIP 10V 10UF	PT-L759XU/XE/ PT-1759X
C2067	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2068	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2069	ECUV1H080CCV	C CHIP 50V 8PF	
C2070	ECUV1H080CCV	C CHIP 50V 8PF	
C2071	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2072	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2077	ECST1AY106	TANTALUM CHIP 10V 10UF	PT-L759XU/XE/ PT-1759X
C2079	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2080	ECUV1E104ZFV	C CHIP 25V 0.1UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C2081	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2082	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2083	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2084	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2085	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2086	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2087	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2088	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2089	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2090	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2093	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2094	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2095	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2096	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2097	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2098	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2099	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2100	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2101	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2102	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2103	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2104	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2105	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2106	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2107	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2109	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2110	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2112	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2113	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2114	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2115	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2116	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2117	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2118	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2119	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2120	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2121	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2122	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2123	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2126	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2127	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2128	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2129	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2130	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2131	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2132	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2133	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2134	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2137	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2138	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2144	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2145	ECUV1E104ZFV	C CHIP 25V 0.1UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C2146	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2149	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2177	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2178	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2179	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2180	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2181	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2183	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2184	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2185	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2186	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2187	ECUV1H060CCV	C CHIP 50V 6PF	
C2188	ECUV1H060CCV	C CHIP 50V 6PF	
C2189	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2190	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2191	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2192	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2193	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2194	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2195	VCUSTBA105KB	C CHIP 10V 1UF	
C2196	VCUSTBA105KB	C CHIP 10V 1UF	
C2197	ECUV1H103ZVF	C CHIP 50V 0.01UF	
C2200	ECST1AY106	TANTALUM CHIP 10V 10UF	PT-L759XU/XE/ PT-1759X
C2203	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2209	ECUV1E104ZVF	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2210	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2301	ECUV1C104KBV	C CHIP 16V 0.1UF	PT-L759XU/XE/ PT-1759X
C2302	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2402	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2403	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2404	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2405	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2407	ECUV1E333KBV	C CHIP 25V 0.033UF	
C2408	ECUV1E333KBV	C CHIP 25V 0.033UF	
C2409	ECUV1E333KBV	C CHIP 25V 0.033UF	
C2410	ECUV1H100CCV	C CHIP 50V 10PF	
C2411	ECUV1H100CCV	C CHIP 50V 10PF	
C2412	ECUV1H100CCV	C CHIP 50V 10PF	
C2413	ECUV1E223KBV	C CHIP 25V 0.022UF	
C2414	ECUV1C104KBV	C CHIP 16V 0.1UF	
C2415	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2416	ECUV1H103KBV	C CHIP 50V 0.01UF	
C2417	ECUV1H103KBV	C CHIP 50V 0.01UF	
C2418	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2419	ECUV1C104KBV	C CHIP 16V 0.1UF	
C2420	ECUV1H103KBV	C CHIP 50V 0.01UF	
C2421	ECUV1H103KBV	C CHIP 50V 0.01UF	
C2422	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C2424	ECUV1C104KBV	C CHIP 16V 0.1UF	
C2425	ECUV1H103KBV	C CHIP 50V 0.01UF	
C2426	ECUV1H103KBV	C CHIP 50V 0.01UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C2427	ECUV1C104KBV	C CHIP 16V 0.1UF	
C2428	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2429	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2430	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2431	ECUV1H221JCV	C CHIP 50V 220PF	
C2432	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2433	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2434	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2435	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2436	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2437	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2438	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2439	ECST0JY106	TANTALUM CHIP 6.3V 10UF	
C2440	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2441	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2442	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2443	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2444	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2445	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2446	ECUV1E333KBV	C CHIP 25V 0.033UF	
C2515	ECUV1C104KBV	C CHIP 16V 0.1UF	
C2516	VCUSQAE104KB	C CHIP 25V 0.1UF	
C2517	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2518	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2519	VCYSARH102KB	C CHIP 50V 1000PF	
C2520	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2521	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2522	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2523	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2524	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2531	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C2532	ECUV1H050CCV	C CHIP 50V 5PF	
C2533	ECUV1H050CCV	C CHIP 50V 5PF	
C2534	ECUV1H050CCV	C CHIP 50V 5PF	
C2536	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2537	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2541	ECST1AY106	TANTALUM CHIP 10V 10UF	
C2542	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2543	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2544	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2545	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2546	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2547	ECEV0JA220S	ELECTROLYTIC CHIP 6.3V 22UF	
C2548	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2549	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2550	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2551	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C2701	ECUV1E104ZFW	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2702	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2703	ECST1AY106	TANTALUM CHIP 10V 10UF	PT-L759XU/XE/ PT-1759X
C2704	ECUV1E104ZFW	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X

Ref. No.	Part No.	Part Name & Description	Remarks
C2705	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2706	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2707	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2708	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2709	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2710	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2711	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2712	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2713	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2714	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2715	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2716	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2717	ECST0JY106	TANTALUM CHIP 6.3V 10UF	PT-L759XU/XE/ PT-1759X
C2718	ECUV1E104ZFV	C CHIP 25V 0.1UF	PT-L759XU/XE/ PT-1759X
C2719	ECUV1C104KBV	C CHIP 16V 0.1UF	PT-L759XU/XE/ PT-1759X
C2801	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2802	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2803	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2804	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2805	ECST0JY226R	TANTALUM CHIP 6.3V 22UF	
C2806	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2807	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C2808	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3001	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3002	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3003	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3004	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3005	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3006	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3007	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3009	ECUV1E104KBN	C CHIP 25V 0.1UF	
C3010	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3014	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C3015	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C3016	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3017	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3018	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3019	VCUSQAA335KB	C CHIP 10V 3.3UF	
C3026	VCUSQAA335KB	C CHIP 10V 3.3UF	
C3027	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3028	ECUV1H560JCV	C CHIP 50V 56PF	
C3029	ECUV1E104ZFV	C CHIP 25V 0.1UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C3030	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C3031	ECUV1E223KBV	C CHIP 25V 0.022UF	
C3032	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C3033	ECUV1H121JCV	C CHIP 50V 120PF	
C3034	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3035	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3036	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3037	ECUV1E683KBN	C CHIP 25V 0.068UF	
C3038	ECUV1H103KBV	C CHIP 50V 0.01UF	
C3039	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3040	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3041	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C3042	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3043	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3044	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3048	ECUV1H150JCV	C CHIP 50V 15PF	
C3049	ECUV1H080CCV	C CHIP 50V 8PF	
C3050	ECUV1H150JCV	C CHIP 50V 15PF	
C3051	ECUV1H471JCV	C CHIP 50V 470PF	
C3052	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C3053	ECUV1H103ZFV	C CHIP 50V 0.01UF	
C3054	ECUV1H121JCV	C CHIP 50V 120PF	
C3056	ECUV1H101JCV	C CHIP 50V 100PF	
C3057	ECUV1H101JCV	C CHIP 50V 100PF	
C3058	ECUV1C105ZFN	C CHIP 16V 1UF	
C3059	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3060	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3061	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3062	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3063	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3511	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3512	ECUV1H101JCV	C CHIP 50V 100PF	
C3513	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3514	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3515	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3517	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3518	ECUV1H101JCV	C CHIP 50V 100PF	
C3519	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3520	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3521	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3523	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3524	ECUV1H101JCV	C CHIP 50V 100PF	
C3525	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3526	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3527	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3529	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C3530	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3531	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3532	ECUV1H101JCV	C CHIP 50V 100PF	
C3533	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3534	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3535	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3536	ECUV1E104ZFV	C CHIP 25V 0.1UF	
C3537	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C3538	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C3539	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3540	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3541	ECUV1H101JCV	C CHIP 50V 100PF	
C3542	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3543	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3544	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3545	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3546	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C3547	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C3548	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3549	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3550	ECUV1H101JCV	C CHIP 50V 100PF	
C3551	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3552	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3553	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3554	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3555	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C3556	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3557	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3558	ECUV1E104KBN	C CHIP 25V 0.1UF	
C3559	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3560	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3561	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3562	ECEV0JA220S	ELECTROLYTIC CHIP 6.3V 22UF	
C3563	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3564	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3565	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3566	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C3567	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C3568	VCUSTBA105KB	C CHIP 10V 1UF	
C3569	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3570	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3571	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C3572	VCUSTBA105KB	C CHIP 10V 1UF	
C3573	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3574	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3575	ECEV1EA330SP	ELECTROLYTIC CHIP 25V 33UF	
C3576	VCUSTBA105KB	C CHIP 10V 1UF	
C3577	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C3578	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C4001	VCUSTBA105KB	C CHIP 10V 1UF	
C4003	VCUSTBA105KB	C CHIP 10V 1UF	
C4004	VCUSTBA105KB	C CHIP 10V 1UF	
C4006	VCUSTBA105KB	C CHIP 10V 1UF	
C4007	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C4008	VCUSTBA105KB	C CHIP 10V 1UF	
C4009	ECUV1H562KBV	C CHIP 50V 5600PF	
C4010	ECEV1CA101WP	ELECTROLYTIC CHIP 16V 100UF	
C4011	ECEV1HA2R2S	ELECTROLYTIC CHIP 50V 2.2UF	
C4012	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C4013	VCUSTBA105KB	C CHIP 10V 1UF	
C4014	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C4015	ECEV1EA4R7S	ELECTROLYTIC CHIP 25V 4.7UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C4016	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C4017	ECUV1E333KBV	C CHIP 25V 0.033UF	
C4018	ECUV1C473KBV	C CHIP 16V 0.047UF	
C4019	ECEV1CA471P	ELECTROLYTIC CHIP 16V 470UF	
C4020	ECEV1CA101WP	ELECTROLYTIC CHIP 16V 100UF	
C4021	ECEV1EA101UP	ELECTROLYTIC CHIP 25V 100UF	
C4024	ECEV1CA101WP	ELECTROLYTIC CHIP 16V 100UF	
C4044	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C4045	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10UF	
C5001	ECUV1H103ZFW	C CHIP 50V 0.01UF	
C5002	ECUV1E473ZFW	C CHIP 25V 0.047UF	
C5003	ECUV1H103ZFW	C CHIP 50V 0.01UF	
C5004	ECEV1CA220S	ELECTROLYTIC CHIP 16V 22UF	
C5006	ECUV1H150JCV	C CHIP 50V 15PF	
C5008	ECUV1H470JCV	C CHIP 50V 47PF	
C5010	ECUV1H150JCV	C CHIP 50V 15PF	
C5011	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C5012	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C5013	ECEV1CA220S	ELECTROLYTIC CHIP 16V 22UF	
C5018	ECUV1H820JCV	C CHIP 50V 82PF	
C5019	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C5020	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47UF	
C6001	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C6003	ECUV1H103ZFW	C CHIP 50V 0.01UF	
C6004	ECUV1H103ZFW	C CHIP 50V 0.01UF	
C6005	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C6006	ECUV1H103ZFW	C CHIP 50V 0.01UF	
C6007	ECUV1H102KBV	C CHIP 50V 1000PF	
C6008	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C6009	ECEV1VS2R2S	ELECTROLYTIC CHIP 35V 2.2UF	
C6010	ECEV1VS2R2S	ELECTROLYTIC CHIP 35V 2.2UF	
C6011	ECEV1VS2R2S	ELECTROLYTIC CHIP 35V 2.2UF	
C6012	ECEV1VS2R2S	ELECTROLYTIC CHIP 35V 2.2UF	
C6013	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6014	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C6015	ECUV1H180JCV	C CHIP 50V 18PF	
C6016	ECUV1H101JCV	C CHIP 50V 100PF	
C6017	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6018	ECUV1H180JCV	C CHIP 50V 18PF	
C6019	ECUV1H101JCV	C CHIP 50V 100PF	
C6020	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C6022	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6026	ECUV1A105ZFW	C CHIP 10V 1UF	
C6027	ECUV1A105ZFW	C CHIP 10V 1UF	
C6029	ECUV1H101JCV	C CHIP 50V 100PF	
C6030	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6031	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6032	ECUV1H103ZFW	C CHIP 50V 0.01UF	
C6033	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C6034	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C6035	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6036	ECUV1E104ZFW	C CHIP 25V 0.1UF	
C6037	ECEV0JA101S	ELECTROLYTIC CHIP 6.3V 100UF	
C6038	ECUV1H060CCV	C CHIP 50V 6PF	

Ref. No.	Part No.	Part Name & Description	Remarks
C6039	ECUV1H060CCV	C CHIP 50V 6PF	
C6040	ECUV1C104KBV	C CHIP 16V 0.1UF	
C6041	ECUV1H101JCV	C CHIP 50V 100PF	
C6042	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C6043	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47UF	
C6601	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C6602	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C6603	ECUV1E104ZVF	C CHIP 25V 0.1UF	
C6604	ECST1AY106	TANTALUM CHIP 10V 10UF	
C6605	ECUV1H102KBV	C CHIP 50V 1000PF	
		FILTERS	
FL2702	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	PT-L759XU/XE/ PT-1759X
FL2703	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	PT-L759XU/XE/ PT-1759X
FL3001	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3002	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3003	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3004	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3005	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3006	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3007	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL3008	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3009	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL3010	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL3011	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL3012	NFM51R20P207	L/C COMPLX CMP 200UF	
FL3013	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL3014	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL4001	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL4002	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL4003	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL4004	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL4005	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL4006	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL5001	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL5002	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL5003	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6001	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6002	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6003	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6004	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6005	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6006	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6007	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6008	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6009	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6010	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6011	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6012	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6013	LSLFAA1H102	L/C COMPLX CMP 50V 1000PF	
FL6014	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	

Ref. No.	Part No.	Part Name & Description	Remarks
FL6015	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6016	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6017	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6018	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6019	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6020	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6021	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6022	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6023	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6024	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6025	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6026	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6027	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6028	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
FL6029	LSLFAA1H101	L/C COMPLX CMP 50V 100PF	
		COILS	
L2005	FBM2125HS420	COIL CHIP 42UH	
L2006	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2007	VLQ0163J4R7	COIL CHIP 4.7UH	
L2008	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2009	FBM2125HS420	COIL CHIP 42UH	
L2010	FBM2125HS420	COIL CHIP 42UH	
L2011	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2012	FBM2125HS420	COIL CHIP 42UH	
L2013	FBM2125HS420	COIL CHIP 42UH	
L2014	FBM2125HS420	COIL CHIP 42UH	
L2301	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2401	FBM2125HS420	COIL CHIP 42UH	
L2402	FBM2125HS420	COIL CHIP 42UH	
L2403	FBM2125HS420	COIL CHIP 42UH	
L2404	FBM2125HS420	COIL CHIP 42UH	
L2502	FBM2125HS420	COIL CHIP 42UH	
L2503	VLQ0163J100	COIL CHIP 10UH	
L2504	VLQ0163J221	COIL CHIP 220UH	
L2505	VLQ0163J221	COIL CHIP 220UH	
L2506	VLQ0163J221	COIL CHIP 220UH	
L2702	VLPS0090	COIL CHIP	PT-L759XU/XE/ PT-1759X
L2703	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2704	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2705	FBM2125HS420	COIL CHIP 42UH	PT-L759XU/XE/ PT-1759X
L2801	FBM2125HS420	COIL CHIP 42UH	
L3002	VLQ0163J220	COIL CHIP 22UH	
L3003	VLQ0163J220	COIL CHIP 22UH	
L3004	VLQ0163J220	COIL CHIP 22UH	
L3005	VLQ0163J3R9	COIL CHIP 3.9UH	

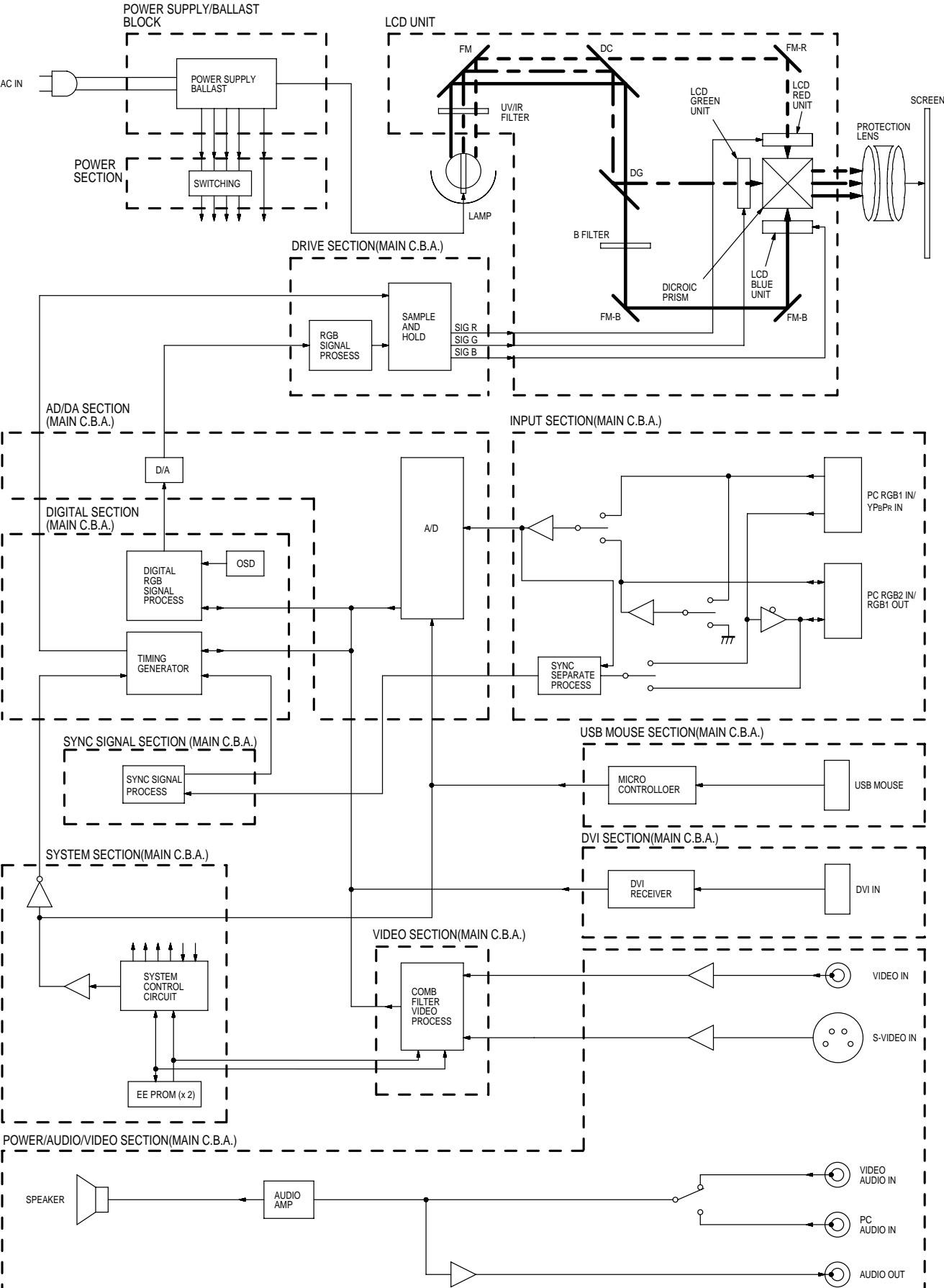
Ref. No.	Part No.	Part Name & Description	Remarks
L3006	VLQ0163J3R9	COIL CHIP 3.9UH	
L3007	VLQ0163J3R9	COIL CHIP 3.9UH	
L3008	VLQ0163J220	COIL CHIP 22UH	
L3009	VLQ0163J220	COIL CHIP 22UH	
L3502	VLQ0163J100	COIL CHIP 10UH	
L3503	VLQ0163J220	COIL CHIP 22UH	
L3504	VLQ0163J100	COIL CHIP 10UH	
L3505	VLQ0163J220	COIL CHIP 22UH	
L3506	VLQ0163J100	COIL CHIP 10UH	
L3507	VLQ0163J220	COIL CHIP 22UH	
L3508	VLQ0163J220	COIL CHIP 22UH	
L3509	VLPS0090	COIL CHIP	
L3510	VLQ0163J220	COIL CHIP 22UH	
L3511	VLQ0163J220	COIL CHIP 22UH	
L3512	VLQ0163J220	COIL CHIP 22UH	
L3513	VLQ0163J220	COIL CHIP 22UH	
L4001	VLQ0163J271	COIL CHIP 270UH	
L5002	VLQ0163J390	COIL CHIP 39UH	
L5004	VLQ0163J390	COIL CHIP 39UH	
L5007	VLQ0163J220	COIL CHIP 22UH	
L6001	VLPS0090	COIL CHIP	
L6002	VLQ0163J220	COIL CHIP 22UH	
L6003	VLQ0163J4R7	COIL CHIP 4.7UH	
L6004	VLQ0163J4R7	COIL CHIP 4.7UH	
L6005	VLQ0163J4R7	COIL CHIP 4.7UH	
L6006	VLQ0163J4R7	COIL CHIP 4.7UH	
L6007	VLQ0163J4R7	COIL CHIP 4.7UH	
L6601	BK1608HS601T	BEAD INDUCTOR CHIP 600	
L6602	BK1608HS601T	BEAD INDUCTOR CHIP 600	
L6603	BK1608HS601T	BEAD INDUCTOR CHIP 600	
L6604	VLQ0163J4R7	COIL CHIP 4.7UH	
L6605	BK1608HS601T	BEAD INDUCTOR CHIP 600	
		CRYSTAL OSCILLATOR	
X2001	LSSX0051	CRYSTAL OSCILLATOR	
X2002	LSSX0052	CRYSTAL OSCILLATOR	
X2003	LSSX0050	CRYSTAL OSCILLATOR	
X6001	LSSX0009	CRYSTAL RESONATOR	
X6002	LSSX0010	CRYSTAL RESONATOR	
X6601	LSSX0049	CRYSTAL OSCILLATOR	
		PIN HEADERS	
P1902	LSJSPC03F	CONNECTOR 3P	
P1903	LSJSME04E	CONNECTOR 4P	
P1905	LSJSPC13F	CONNECTOR 13P	
P1906	LSJSME03E	CONNECTOR 3P	
P3501	LSJS09BJ036	CONNECTOR 36P	
P3502	LSJS09BJ036	CONNECTOR 36P	
P3503	LSJS09BJ036	CONNECTOR 36P	
P4001	LSJSPC02F	CONNECTOR 2P	
P6001	LSJSME03E	CONNECTOR 3P	
P6002	LSJSME03E	CONNECTOR 3P	

Ref. No.	Part No.	Part Name & Description	Remarks
P6004	LSJSME02E	CONNECTOR 2P	
P6005	LSJS0085	CONNECTOR 18P	
		FUSE & PROTECTOR	
PR1902	ICP-S2.3	IC PROTECTOR CHIP 2.3A	▲
PR1903	ICP-S1.2	IC PROTECTOR CHIP 1.2A	▲
PR1904	ICP-S1.8	IC PROTECTOR CHIP 1.8A	▲
PR1905	ICP-S1.8	IC PROTECTOR CHIP 1.8A	▲
		MISCELLANEOUS	
JK2701	K1FB124B0018	DVI JACK SOCKET	PT-L759XU/XE/ PT-1759X
JK3001	LSJJ0130A	D-SUB MINI JACK SOCKET	
JK3002	LSJJ0130A	D-SUB MINI JACK SOCKET	
JK4001	LSJJ0131	STEREO MINI JACK SOCKET	
JK4002	LSJJ0132	STEREO MINI JACK SOCKET	
JK5001	LSJJ0133	S-JACK SOCKET	
JK5002	LSJJ0134	RCA PIN JACK SOCKET	
JK6001	LSJJ0128	MOUSE JACK SOCKET	
JK6002	LSJJ0129	RS-232C JACK SOCKET	
JK6601	LSJJ0159	USB JACK SOCKET	
		MISCELLANEOUS	
23	LSMT0043	CUSHION,POLYURETHANE-NYLON	
98	VMFS0321	SHEET,NYLON-RAYON	
490	LSDH0062	SCREW,STEEL	
494	XSB3+8FZ	SCREW,STEEL	
495	XTB3+8GFZ	SCREW,STEEL	
701	LSKF0390	JACK COVER	PT-L759VU/VE/ PT-1759V
701	LSKF0391	JACK COVER	PT-L759XU/XE/ PT-1759X
702	LSMA0330	JACK PLATE,STEEL	
703	GP1U292Q	INFRARED RECEIVER UNIT	
704	VMTS0035	SHEET,NYLON-RAYON	
705	VMFS0108	SHEET,NYLON-RAYON	
706	LSMX0063	SPACER	
707	VMFS0122	SHEET,NYLON-RAYON	
		POWER C.B.A.	
		SWITCHES	
SW1141	AGX205	SWITCH INTER LOCK SWITCH	▲
		PRINTED CIRCUIT BOARD ASSEMBLY	
E23	LSEB1049A1	FILTER C.B.A. NR	

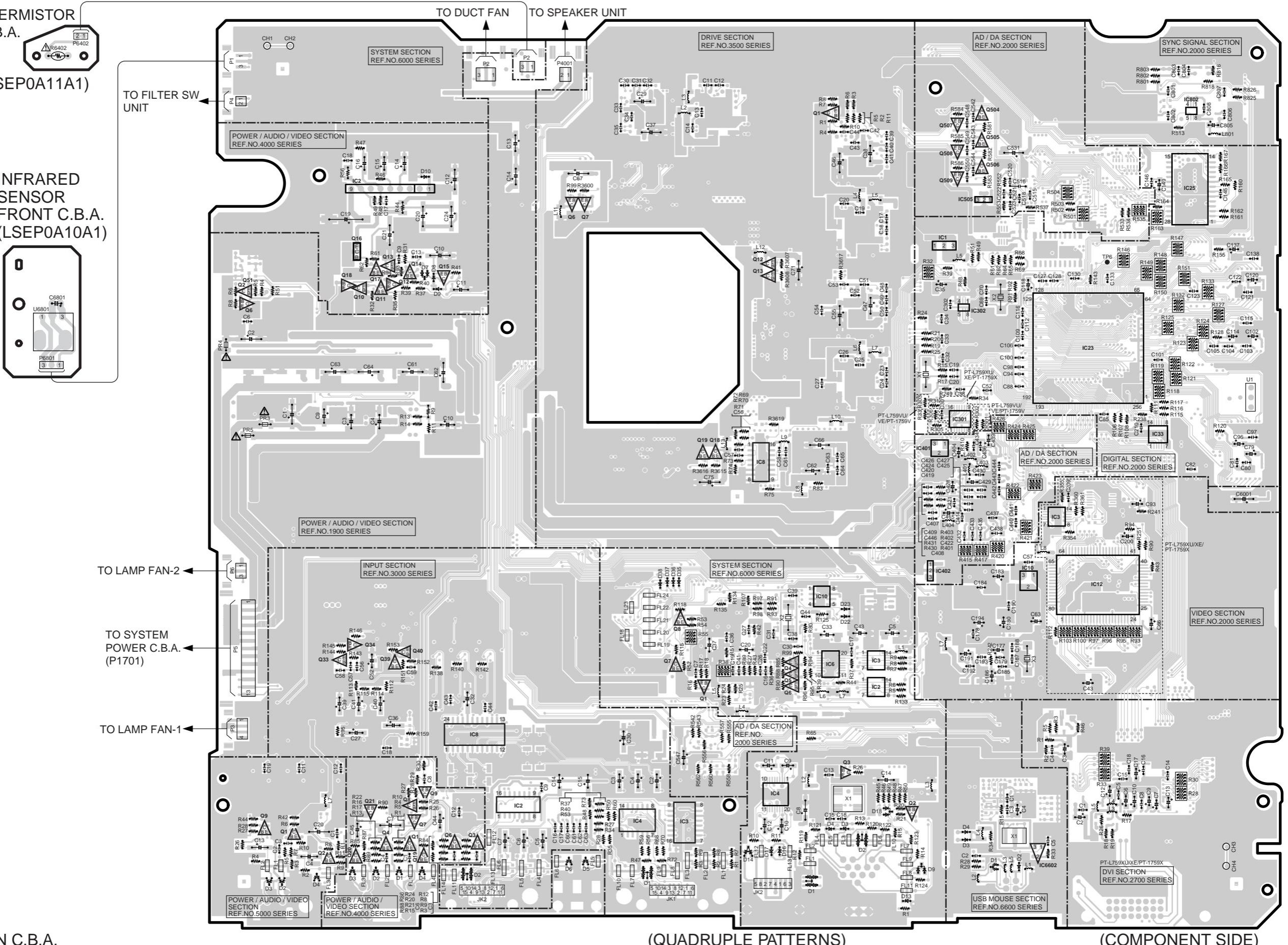
Ref. No.	Part No.	Part Name & Description	Remarks
		MISCELLANEOUS	
E21	LSEP1046B1	MAIN POWER C.B.A. NR	
E22	LSEP1048A1	LINE-FILTER C.B.A. NR	
E24	LSEP1047A1	SYSTEM POWER C.B.A. NR	
409	XTN3+4F	TAPPING SCREW,STEEL	
429	XYE3+FF6	SCREW W/WASHER,STEEL	
496	XTV3+20J	TAPPING SCREW 3X20	
711	LSEE0004	TEMPERATURE FUSE UNIT	
712	KGLS-5RF	RIVET,NYLON	
713	KGPS-5RF	SPACER	
714	LSMA0435	BALLAST CASE A,STEEL	▲
715	LSMP0195	BALLAST PIECE	
716	LSMZ0221	BALLAST BARRIER A4	▲
717	LSMZ0248	BALLAST BARRIER A1	▲
718	LSMZ0250	BALLAST BARRIER A3	▲
719	LSMZ0262	BALLAST BARRIER A2	▲
720	LSMZ0263	BALLAST BARRIER A5	▲
721	LSQL0904	CAUTION LABEL	
722	VZFS0006	CLAMPER	
		FILTER C.B.A. NR	
		PIN HEADERS	
P1101	LSJS0088	INLET	▲
		SWITCHES	
SW1101	LSSW0013-1	MAIN SWITCH	▲
		FUSE & PROTECTOR	
F1101	LSSF0013B63T	FUSE 6.3A 250V	▲
F1102	LSSF0013B63T	FUSE 6.3A 250V	▲
		MISCELLANEOUS	
56	LSMX0066	RIVET,NYLON	
429	XYE3+FF6	SCREW W/WASHER,STEEL	
496	XTV3+20J	TAPPING SCREW,STEEL	
498	XYN4+C6FN	SCREW W/WASHER,STEEL	
723	FBA06T24HP	POWER FAN	▲
724	KGLS-6RF	LOCKING CARD SPACER	
725	LSMA0420	BALLAST CASE B,STEEL	
727	LSMZ0206	BALLAST BARRIER B1	▲
728	LSMZ0207	BALLAST BARRIER B2	▲
729	LSMZ0222	BALLAST BARRIER B3	▲
730	LSMZ0251	BALLAST BARRIER B4	▲

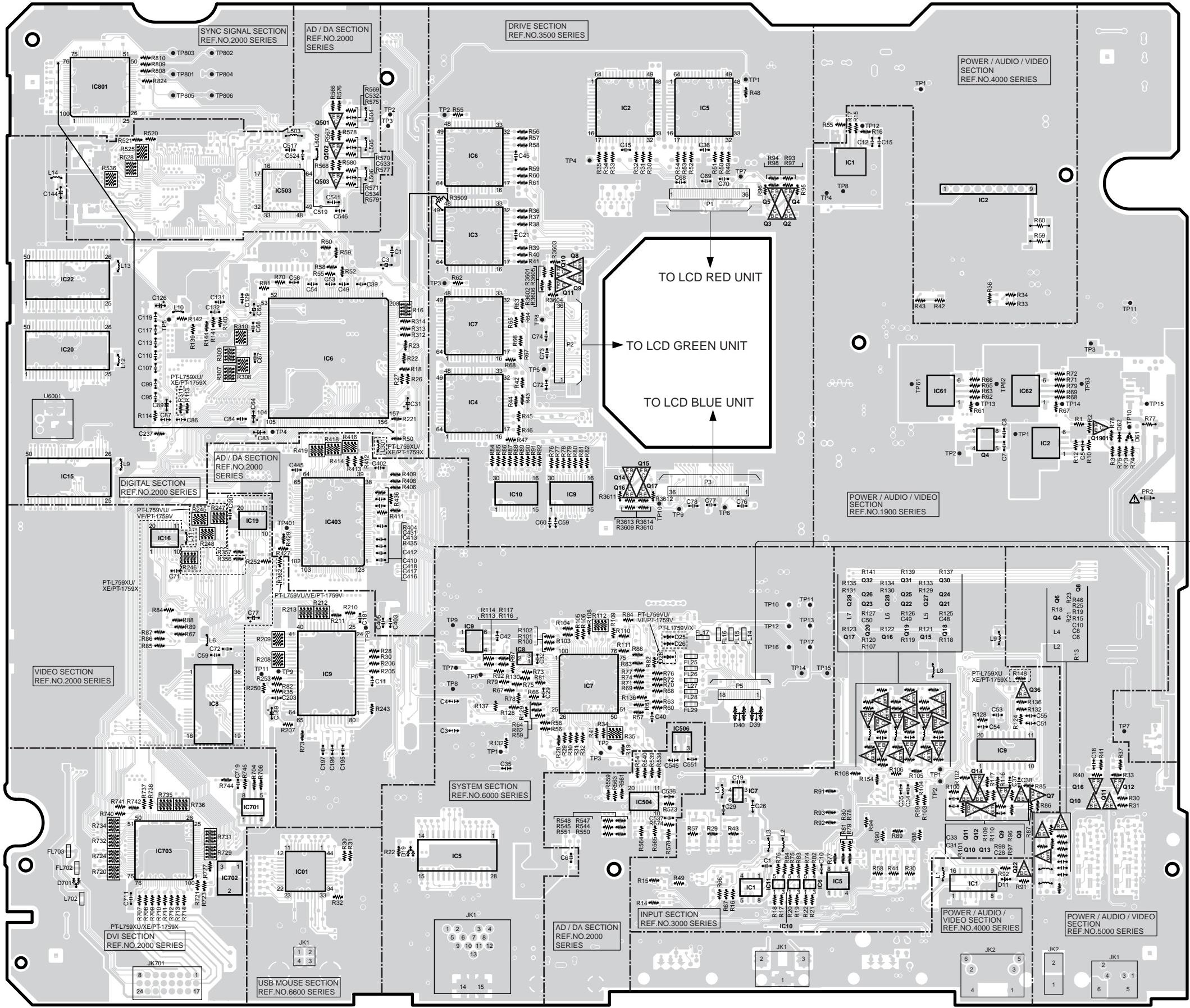
Ref. No.	Part No.	Part Name & Description	Remarks
731	LSMZ0264	BALLAST BARRIER B5	▲
		INFRARED SENSOR FRONT C.B.A.	
		CAPACITORS	
C6801	ECEA0JKA470I	ELECTROLYTIC 6.3V 47UF	
		PIN HEADERS	
P6801	LSJA0233	CONNECTOR CORD W/PLUG,DC 5V	
		MISCELLANEOUS	
741	PNA4611M00XD	INFRARED RECEIVER UNIT	
		THERMISTOR C.B.A.	
		RESISTORS	
R6402	VRTS0013	THERMISTOR	▲
		PIN HEADERS	
P6402	LSJA0232	CONNECTOR CORD W/PLUG,DC 5V	

11. Schematic Diagram for printing with A4 size



PIN NO.	PORT NAME	I/O	FUNCTION	PIN NO.	PORT NAME	I/O	FUNCTION
1	RES	I	Reset: Input LOW	51	I2C DATA	I/O	I ² C Serial Data Input/Output
2	XTAL	I	Refrence Clock	52	L ON H	O	Lamp ON: HIGH
3	EXTAL	I	Refrence Clock	53	L ERR	I	Lamp Error Input
4	VCCB	-	+5V	54	FAN1 ON H	O	FAN1 ON: HIGH
5	MD1	I	+5V	55	FAN2 ON H	O	FAN2 ON: HIGH
6	MD0	I	Grounding Terminal	56	FLIKER CS		Fliker Control IC Chip Select : LOW
7	NMI	I	+5V	57	MOUSE D7	O	Mouse Data Output 7
8	STBY	I	+5V	58	MOUSE D6	O	Mouse Data Output 6
9	VCC	-	+5V	59	VCC	-	+5V
10	RGB OUT L	O	RGB 2 Output : LOW	60	P LED R	O	Power LED-R ON: LOW
11	TG CS	O	Timing Generator Chip Select: HIGH	61	P LED G	O	Power LED-G ON: LOW
12	SD SCK	O	Serial Clock Output	62	KEY IN5	I	Key Data IN 5 Input
13	MS DATA	I	Serial Data Input	63	KEY IN4	I	Key Data IN 4 Input
14	SD DATA	O	Serial Data Output	64	KEY IN3	I	Key Data IN 3 Input
15	VSS	-	Grounding Terminal	65	KEY IN2	I	Key Data IN 2 Input
16	DTV L	O	DTV Input : LOW	66	KEY IN1	I	Key Data IN 1 Input
17	FILTER OPEN H	I	Filter Open: HIGH	67	KEY IN0	I	Key Data IN 0 Input
18	CORRECT CS	O	(Not Used)	68	MOUSE D5	O	Mouse Data Output 5
19	DC2 IN H	O	RGB2 Input Select : HIGH	69	MOUSE D4	O	Mouse Data Output 4
20	PRO CS	O	Process IC Chip Select: LOW	70	VSS	-	Grounding Terminal
21	OSD CS	O	OSD Chip Select: LOW	71	VSS	-	Grounding Terminal
22	USB CS	O	USB Microprocessor Chip Select : HIGH	72	7SEG 1	O	7 Segment LED-a ON: LOW
23	SYS VS	I	V-Sync Interrupt Input	73	7SEG 2	O	7 Segment LED-f ON: LOW
24	IR F	I	Front IR Remote Control Data Interrupt Input	74	7SEG 3	O	7 Segment LED-g ON: LOW
25	IR R	I	Rear IR Remote Control Data Interrupt Input	75	7SEG 4	O	7 Segment LED-e ON: LOW
26	SYS HS	I	VIDEO H-Sync Signal Input	76	7SEG 5	O	7 Segment LED-d ON: LOW
27	MOUSE RESET	O	Mouse IC Reset: LOW	77	YUV H	O	YPbPr Mode : HIGH
28	SYS VS	I	VIDEO V-Sync Signal Input	78	7SEG 7	O	7 Segment LED-c ON: LOW
29	MOUSE SUPPLY	I	Mouse Supply Detect Input: HIGH	79	7SEG 8	O	7 Segment LED-b ON: LOW
30	DAC1 CS	O	D/A Converter 1 Chip Select: HIGH	80	MOUSE D3	O	Mouse Data Output 3
31	AD CS	O	A/D Convertor Chip Select : LOW	81	MOUSE D2	O	Mouse Data Output 2
32	MOUSE OUT0	O	Mouse Control Output 0	82	SCAN0	O	Scan Pulse 0 Output
33	MOUSE OUT1	O	Mouse Control Output 1	83	SCAN1	O	Scan Pulse 1 Output
34	MOUSE IN0	I	Mouse Control Interrupt Input 0	84	SCAN2	O	Scan Pulse 2 Output
35	MOUSE IN1	I	Mouse Control Interrupt Input 1	85	SCAN3	O	Scan Pulse 3 Output
36	AVREF	-	+5V	86	SCAN4	O	(Not Used)
37	AVCC	-	+5V	87	MUTE1 H	O	Mute: HIGH
38	THERMO 1	I	Thermo 1 Temp. Data Input	88	MUTE2 H	O	Volume=0: HIGH
39	THERMO 2	I	Thermo 2 Temp. Data Input	89	V AUDIO H	O	VIDEO Input Mode: HIGH
40	S1 5V	I	Wide Signal Detect Input : HIGH	90	MOUSE D1	O	Mouse Data Output 1
41	LAMP ON H	I	(Not Used)	91	MOUSE D0	O	Mouse Data Output 0
42	FAN LOCK H	I	Cooling Fan Lock: HIGH	92	VSS	-	Grounding Terminal
43	DVI NC L	I	DVI-D Input Signalless: LOW	93	VIDEO H	O	VIDEO/S-VIDEO Mode: HIGH
44	VOLUME	I	Audio Volume Control	94	SRCH H	O	Auto Setup Trigger Pulse
45	RGB H	I	(Not Used)	95	CPS L	I	Composit Sync: LOW Separate Sync: HIGH
46	AVSS	-	Grounding Terminal	96	PC NC H	I	RGB Input Signalless: HIGH
47	INTLACE	I	Interlace Signal Detect	97	TXD	O	Transmitted Data (RS232C)
48	LCD ON H	O	LCD Power ON : HIGH	98	RXD	I	Received Data (RS232C)
49	D RESET	O	Digital 5V Reset: HIGH	99	I2C SCK	O	I ² C Sereal Clock Output
50	POWER ON H	O	Power ON: HIGH	100	RESO	O	Reset Output : LOW





NOTE: QUADRUPLE PATTERNS C.B.A.
THIS C.B.A. IS QUADRUPLE PATTERNS C.B.A.
THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SINE △ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: REF.NO. ON MAIN C.B.A. IS ABBREVIATED AS FOLLOWS.

REF.NO.1900 SERIES (R1902 IS ABBREVIATED TO R2)
REF.NO.2000 SERIES (R2002 IS ABBREVIATED TO R2)
REF.NO.3000 SERIES (R3002 IS ABBREVIATED TO R2)
REF.NO.3500 SERIES (R3502 IS ABBREVIATED TO R2)
REF.NO.4000 SERIES (R4002 IS ABBREVIATED TO R2)
REF.NO.5000 SERIES (R5002 IS ABBREVIATED TO R2)
REF.NO.6000 SERIES (R6002 IS ABBREVIATED TO R2)
REF.NO.6600 SERIES (R6602 IS ABBREVIATED TO R2)

(QUADRUPLE PATTERNS)

(FOIL SIDE)

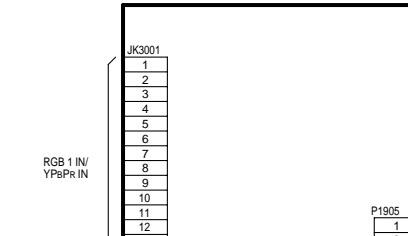
MAIN C.B.A.

INTERCONNECTION

**CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 6A 250V FUSE.**
**ATTENTION: POUR UNE PROTECTION CONTINUE LES
RISQUES**
**D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME
TYPE 6.3A 250V**

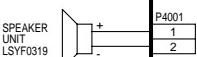


MAIN C.B.A.
LSEP3043A1:PT-L759XU/XE
LSEP3043C1:PT-L759X
LSEP3043F1:PT-L759U/VE
LSEP3043H1:PT-L759V



RGB 1 IN/
YPbPr IN

RGB 2 IN/
RGB1 OUT



SPEAKER
UNIT
LSYF0319

P4001
1 2

JK4001
PC AUDIO
IN

JK4002
VIDEO-AUDIO
IN

VIDEO-AUDIO
OUT

JK5002
VIDEO IN

PT-L759XU/XE
PT-L759X

JK2701
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

DVI IN

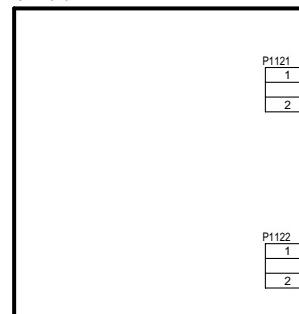
JK6001
USB

JK5001
S-VIDEO IN

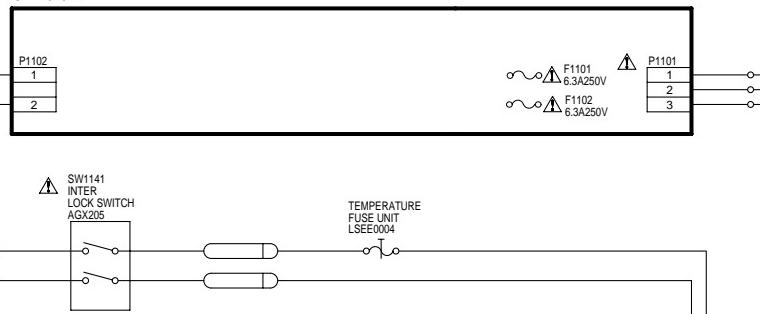
JK6001
MOUSE

JK6002
RS232C

LINE FILTER C.B.A.
LSEP1048A1

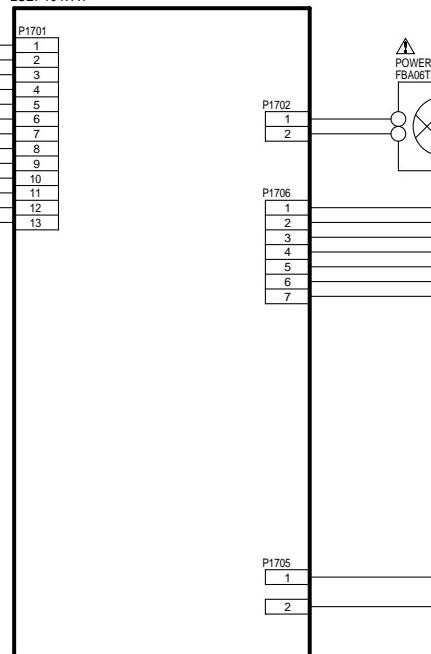


FILTER C.B.A.
LSEB1049A1

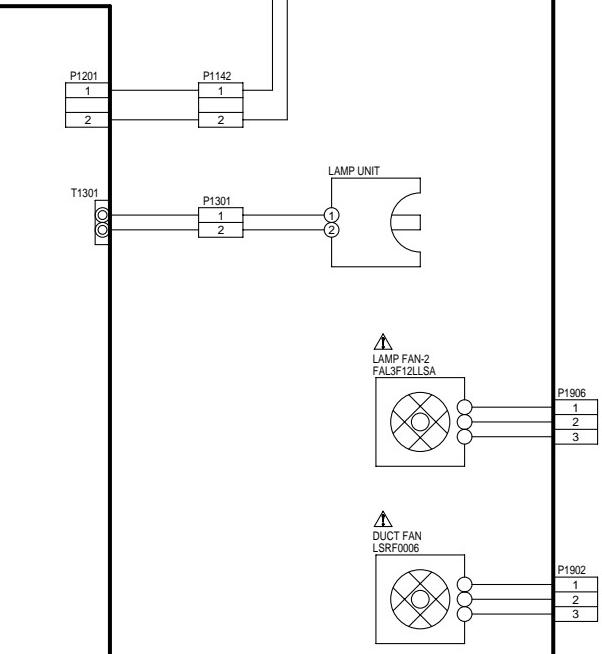


POWER CORD
VJAS038: PT-L759VU/XU
VJAS018: PT-L759V/VE
VJAS018: PT-L759V/VE
LSJA0210: PT-L759V/X

SYSTEM POWER C.B.A.
LSEP1047A1



MAIN POWER C.B.A.
LSEP1046B1



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SINE HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.

LCD RED UNIT
(LSXA0386 OR LSXA0383 : PT-L759VU/VE/PT-L759V)
(LSXA0392 OR LSXA0389 : PT-L759XU/VE/PT-L759X)

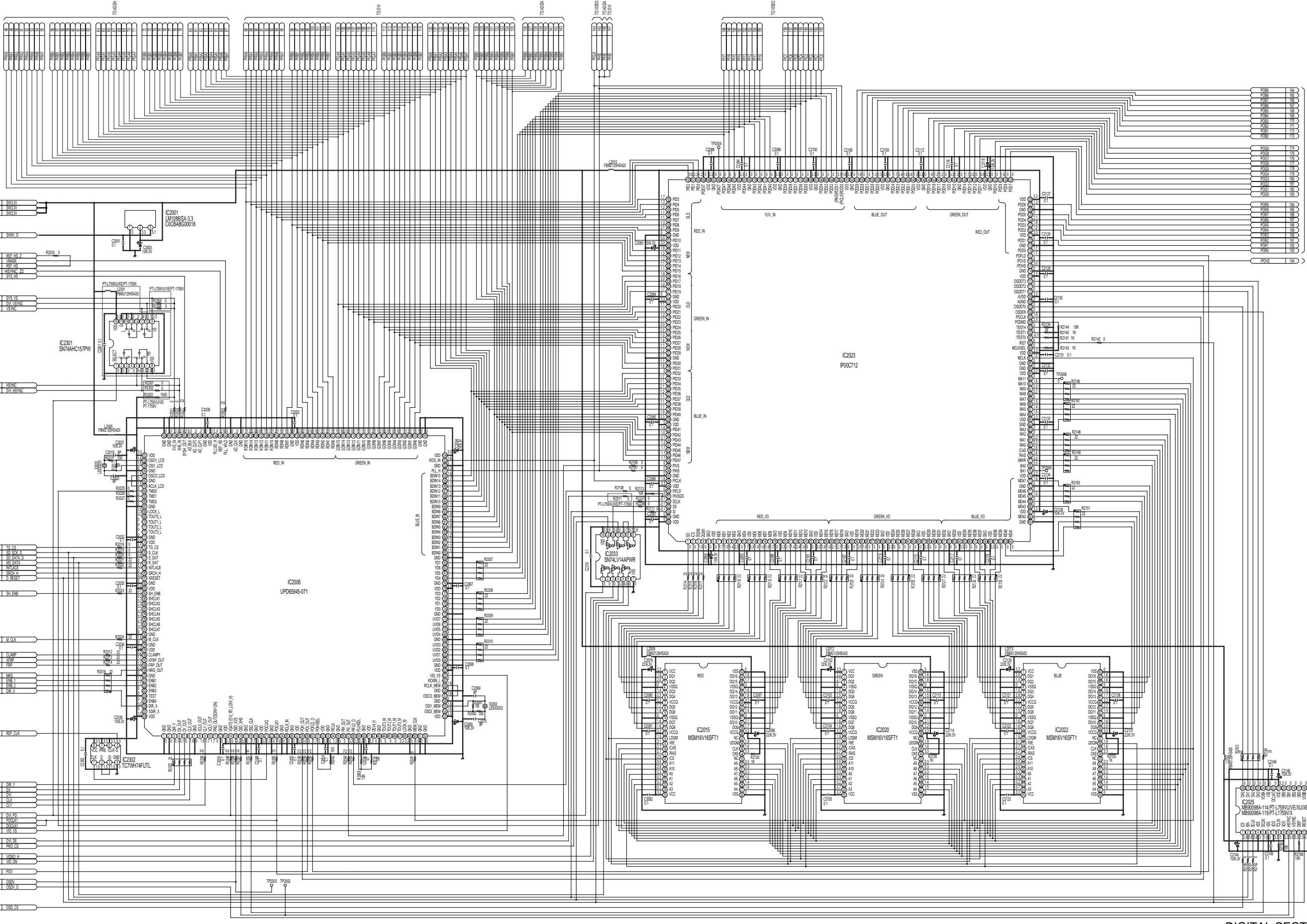
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	2
	35
	34
	3
	33
	32
	5
	6
	31
	7
	30
	29
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	11
	26
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	16
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	12
	11
	10
	9
	8
	7
	6
	5
	4
	3
	2
	1

LCD GREEN UNIT
(LSXA0387 OR LSXA0384 : PT-L759VU/VE/PT-L759V)
(LSXA0390 OR LSXA0393 : PT-L759XU/VE/PT-L759X)

P3502	1
	2
	35
	34
	3
	33
	4
	32
	5
	6
	31
	7
	30
	8
	29
	9
	10
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	13
	12
	11
	10
	9
	8
	7
	6
	5
	4
	3
	2
	1

LCD BLUE UNIT
(LSXA0388 OR LSXA0385 : PT-L759VU/VE/PT-L759V)
(LSXA0394 OR LSXA0391 : PT-L759XU/VE/PT-L759X)

P3503	1
	2
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	34
	3
	33
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	32
	5
	6
	31
	7
	30
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	29
	9
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	27
	11
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	8
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	5
	4
	3
	2
	1



P951 LSJ50B036

TO LCD RED UNIT

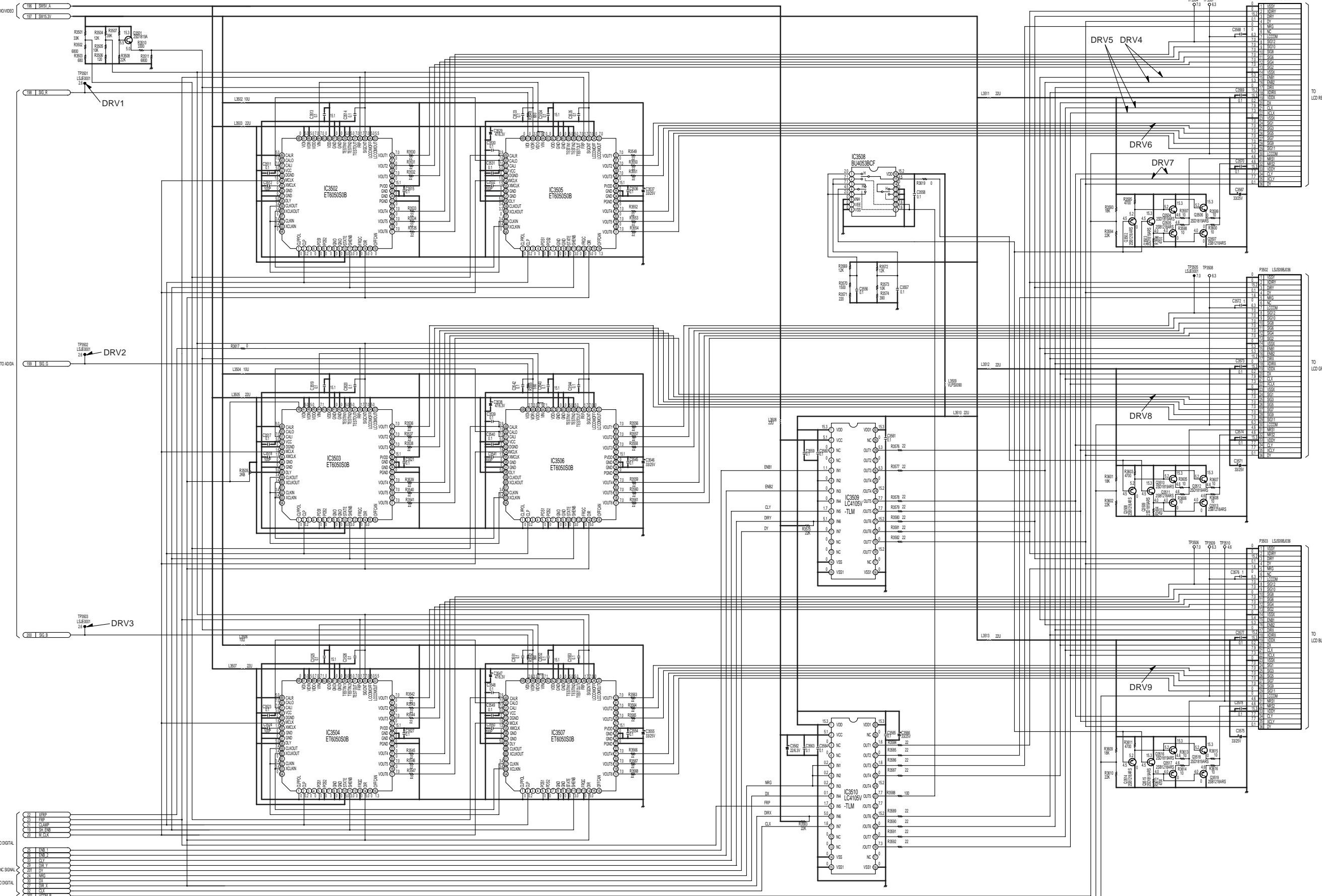
P961 LSJ50B036

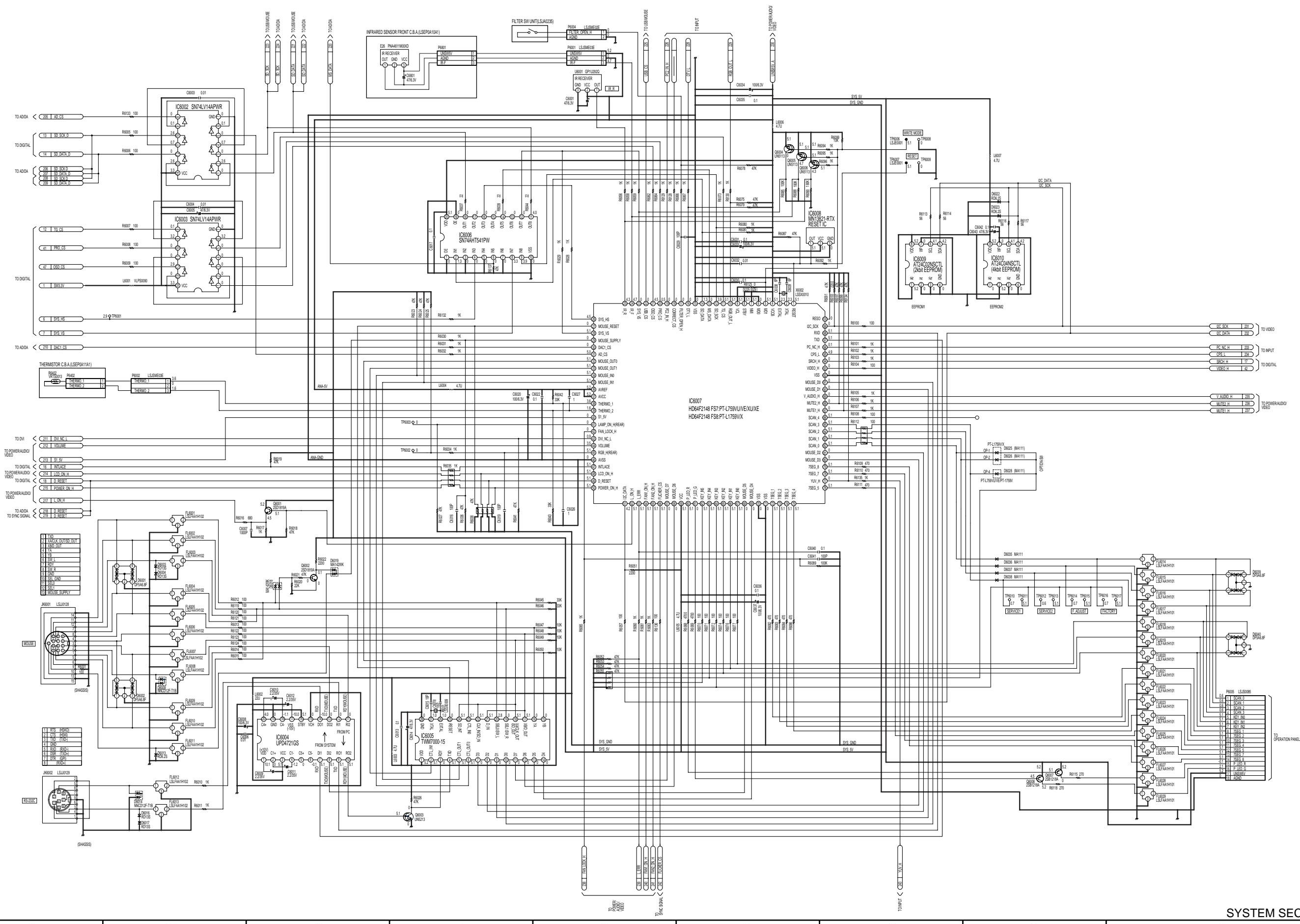
TO LCD GREEN UNIT

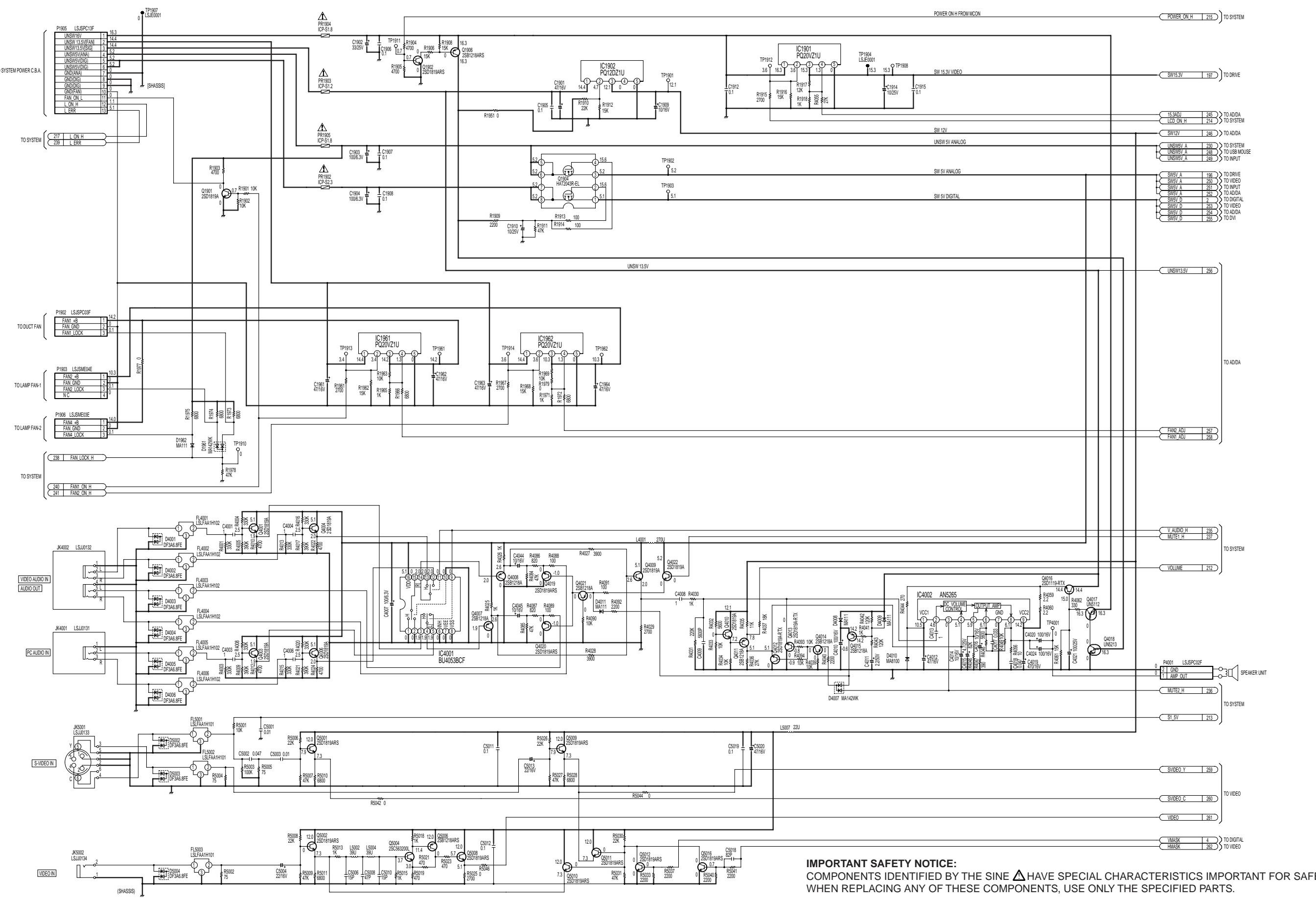
P953 LSJ50B036

TO LCD BLUE UNIT

DRIVE SECTION

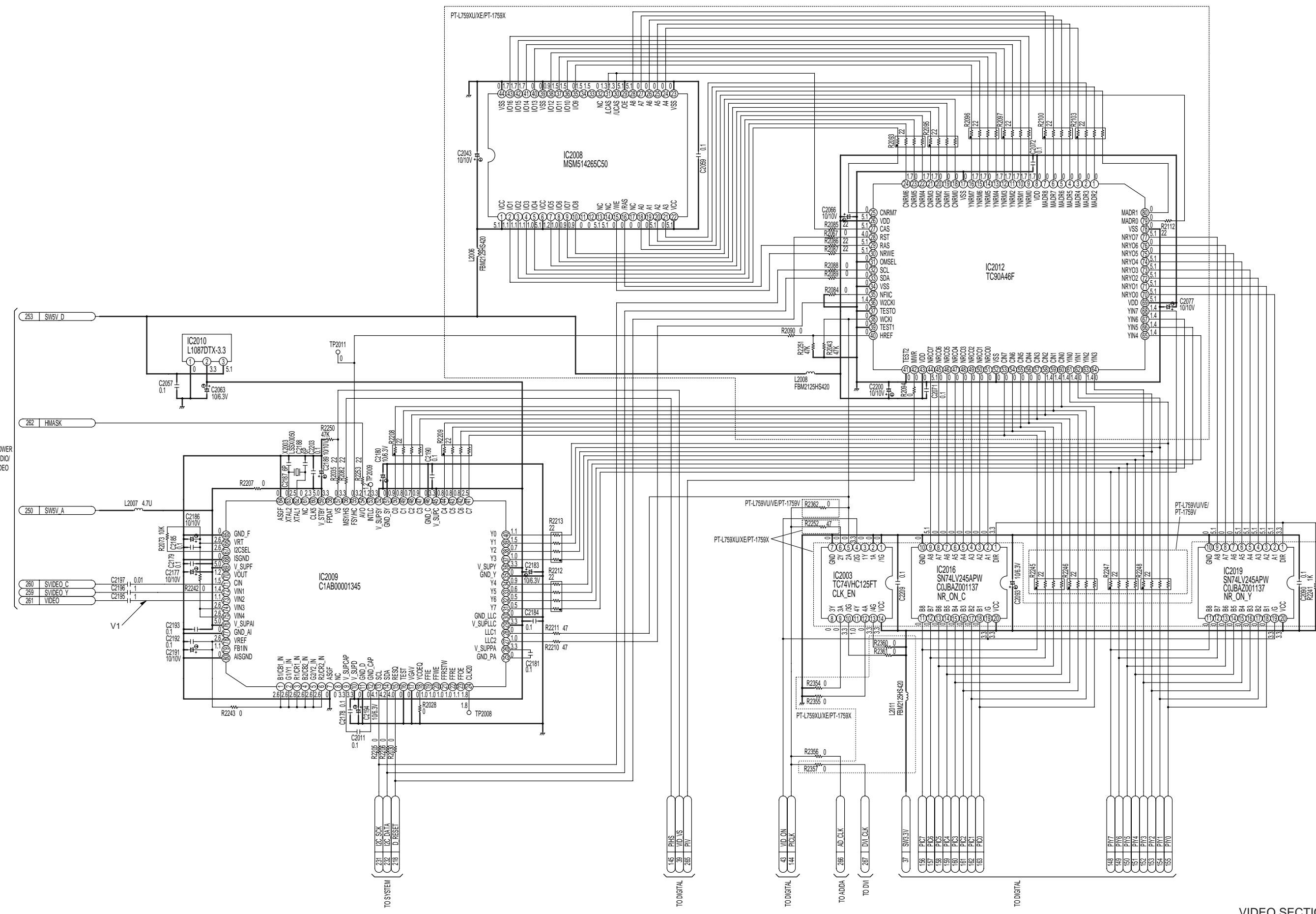


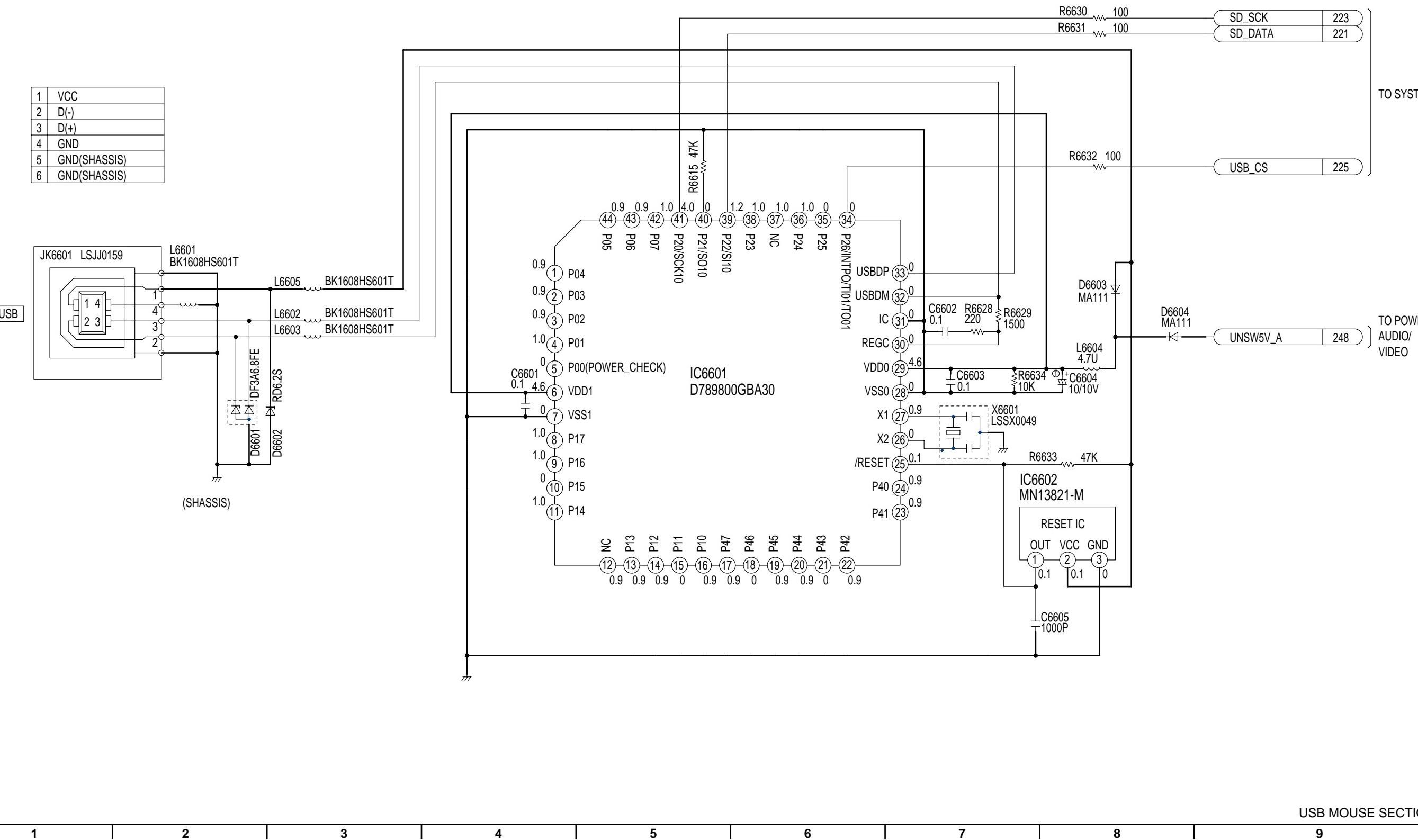


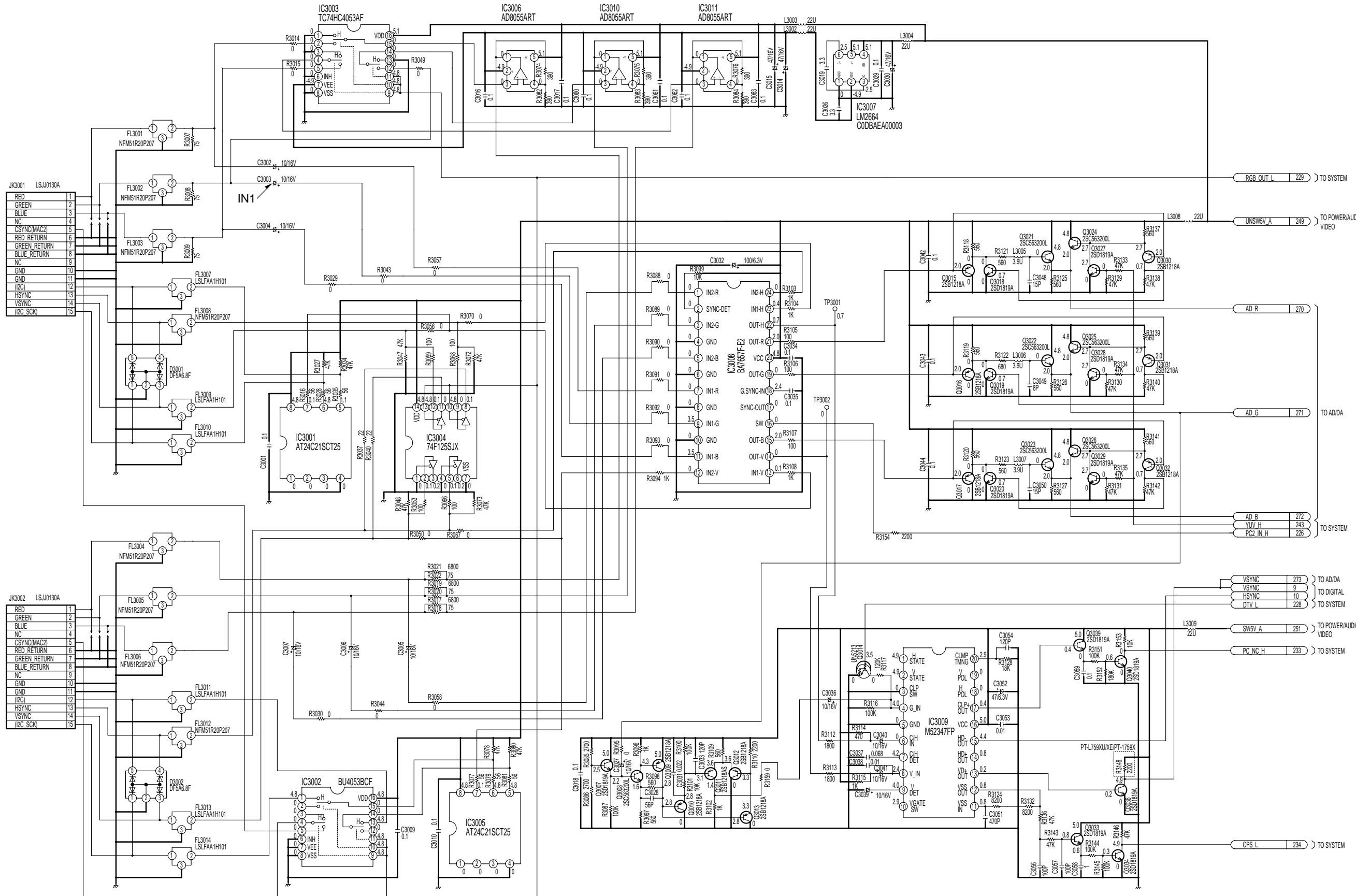


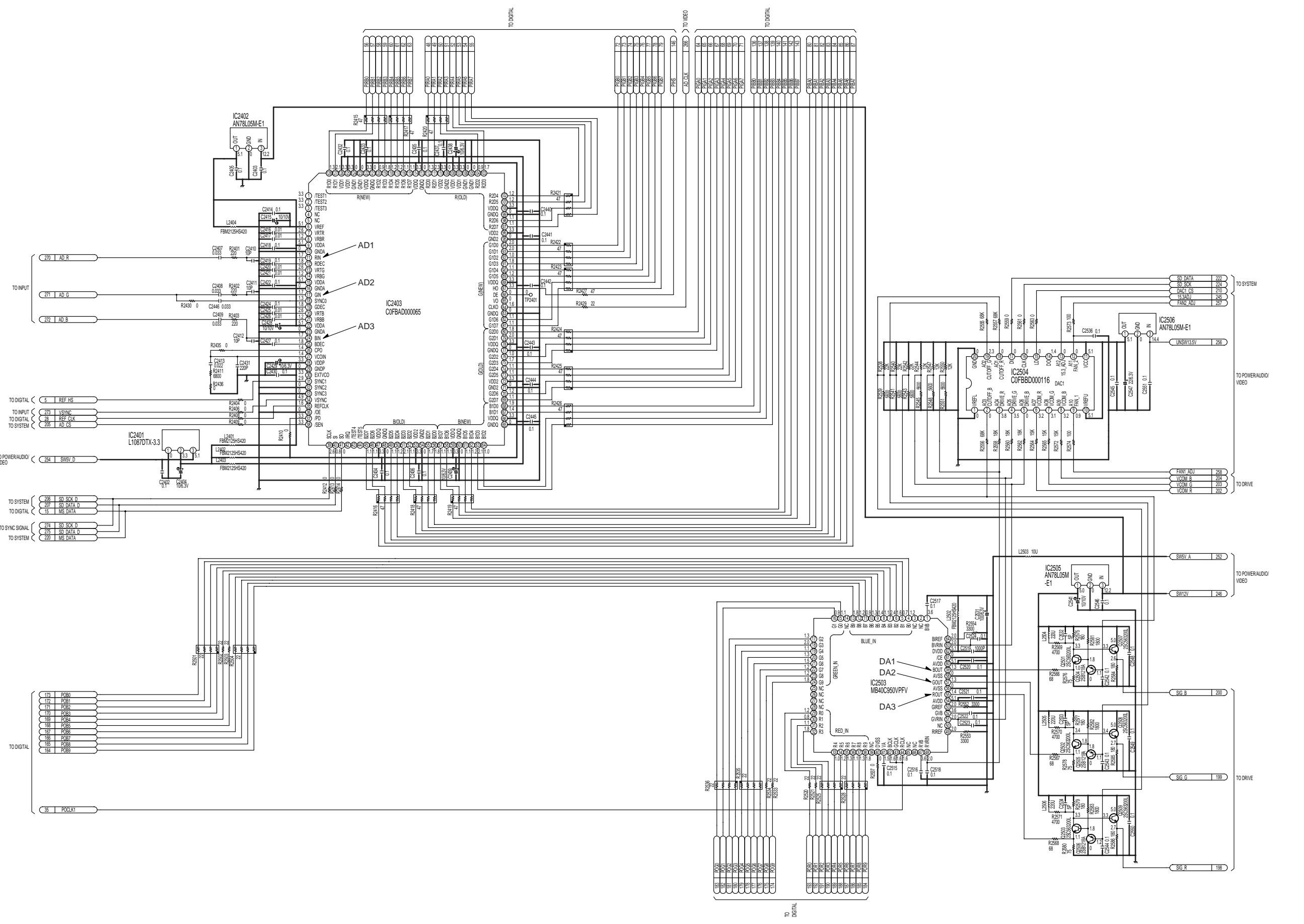
IMPORTANT SAFETY NOTICE:

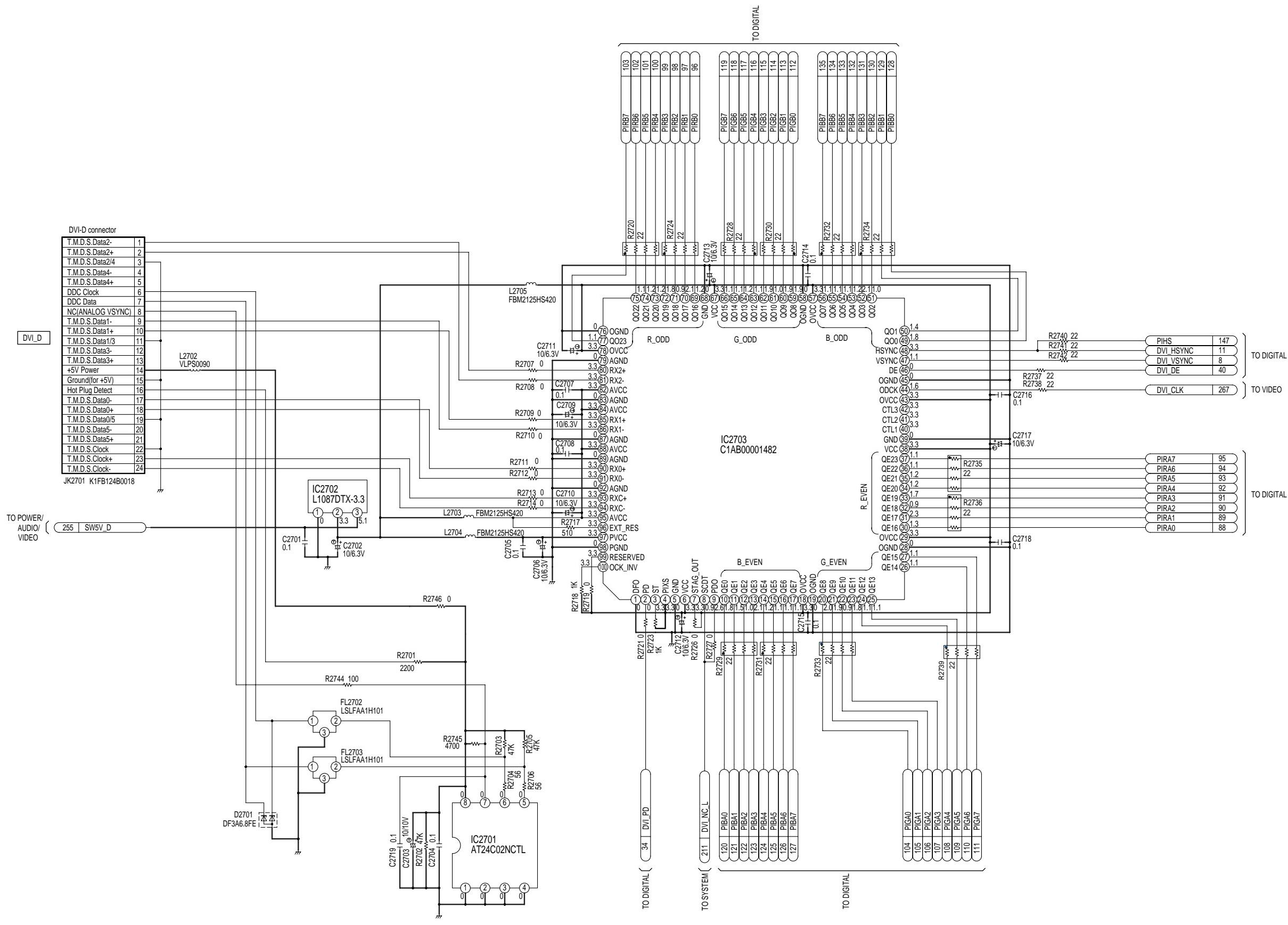
COMPONENTS IDENTIFIED BY THE SINE Δ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

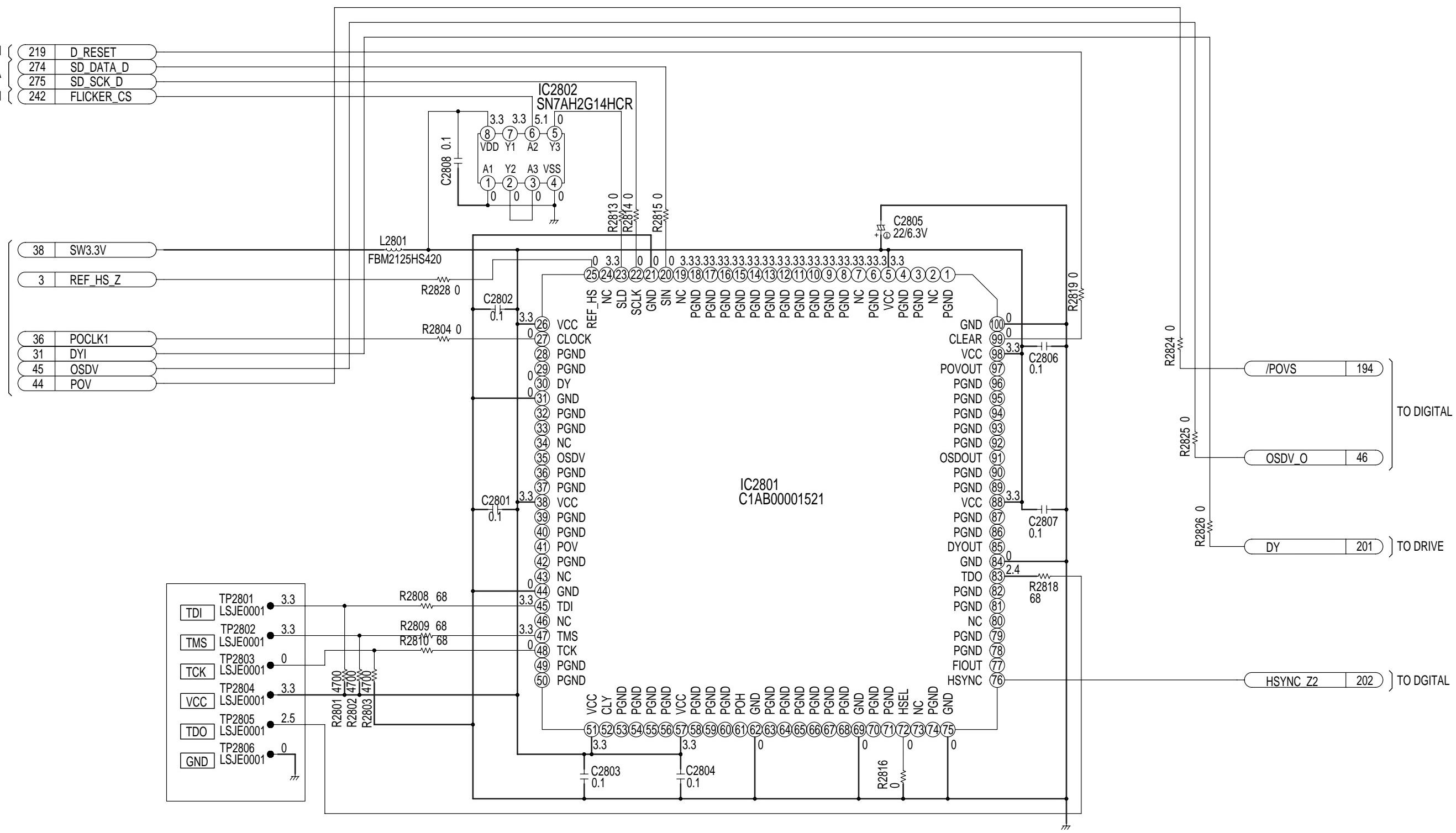












7 SCHEMATIC DIAGRAMS

7.1. SCHEMATIC DIAGRAM NOTES

1. Important safety notice

Components identified by the sign  have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

2. Do not use the part number shown on this drawing for ordering.

The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Parts different in shape or size may be used.

However, only interchangeable parts will be supplied as service replacement parts.

5. The part number shown on this drawing is only main part number, except for safety parts. Be sure to make your orders of replacement parts according to the parts list.

6. The Schematic Diagram of Main Power C.B.A., System Power C.B.A., Line Filter C.B.A. and Filter C.B.A. is not included in this Service Manual.

Because, these Circuit Board Assemblies are supplied as a unit (C.B.A.) only.

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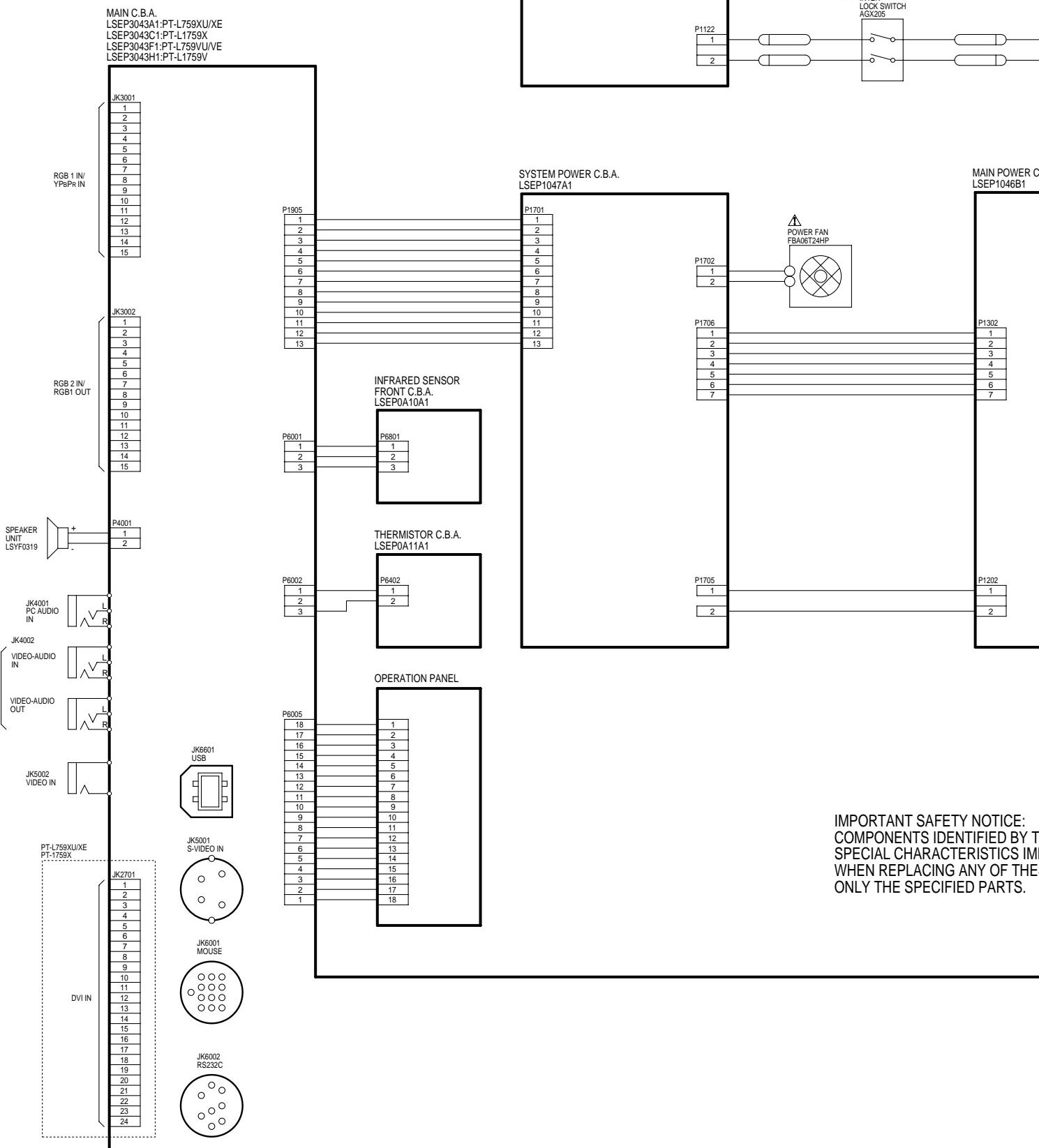
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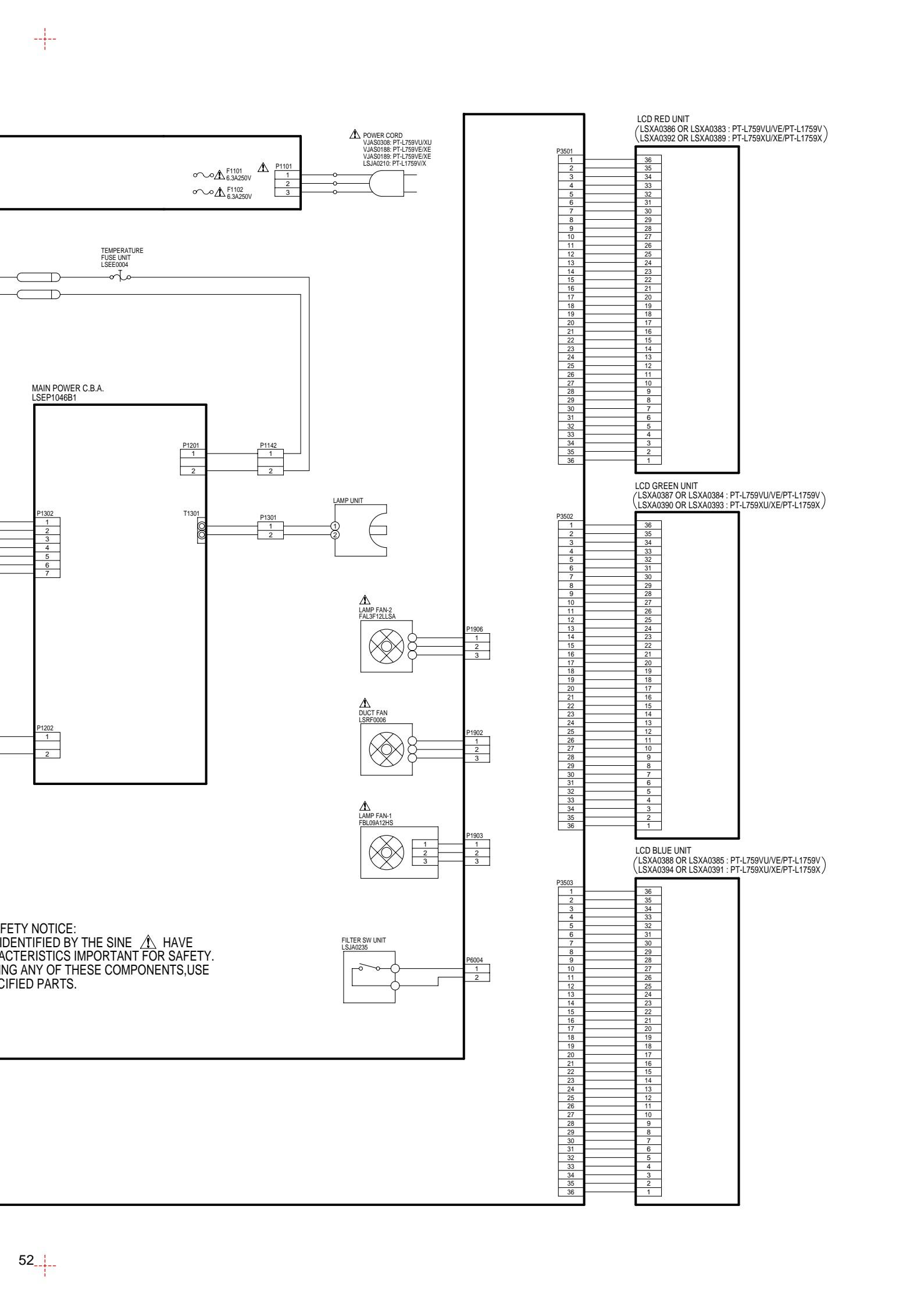
d in this

7.2. INTERCONNECTION SCHEMATIC DIAGRAM

INTERCONNECTION

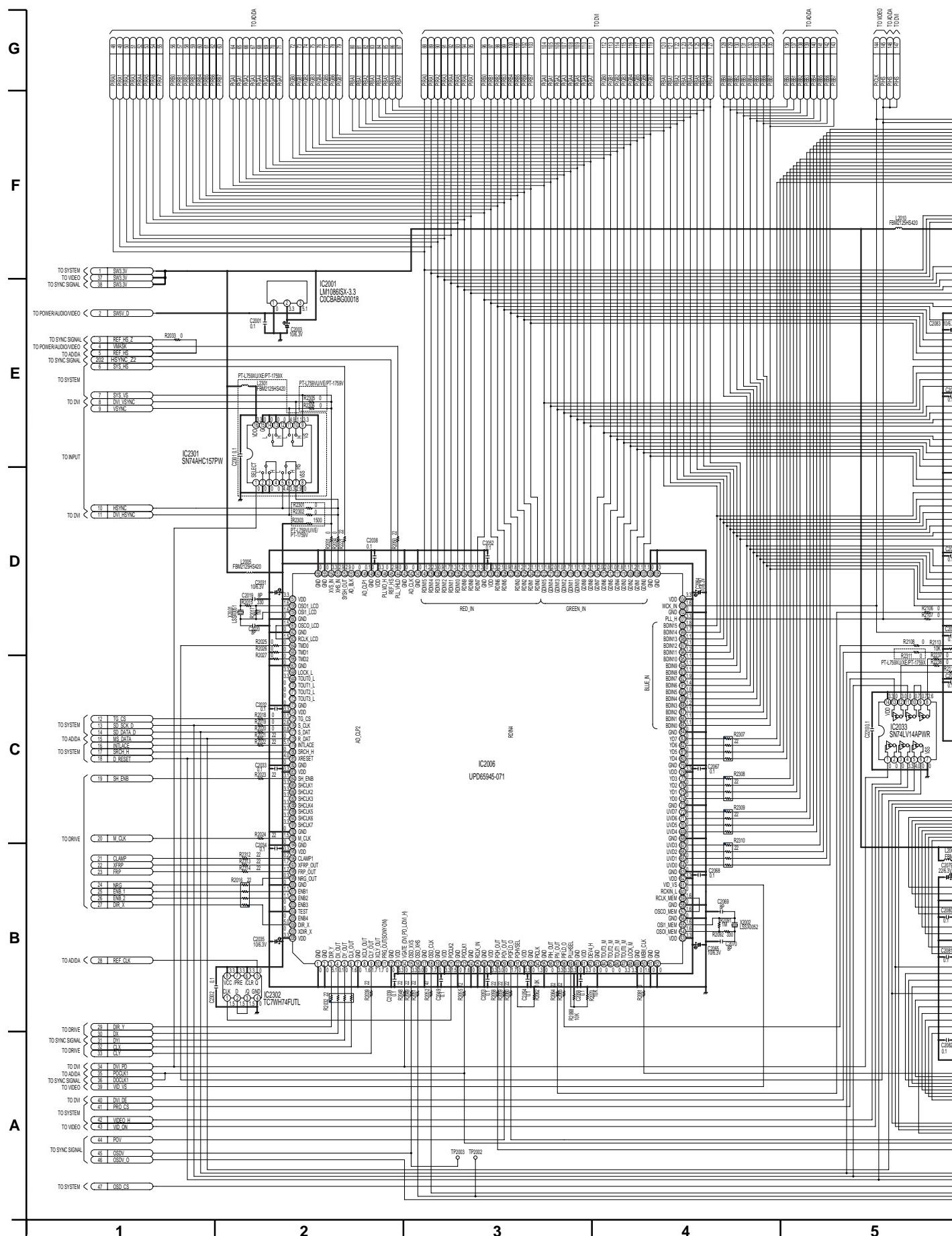
CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 6A 250V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES
RISQUES
**D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME
TYPE 6A 250V**



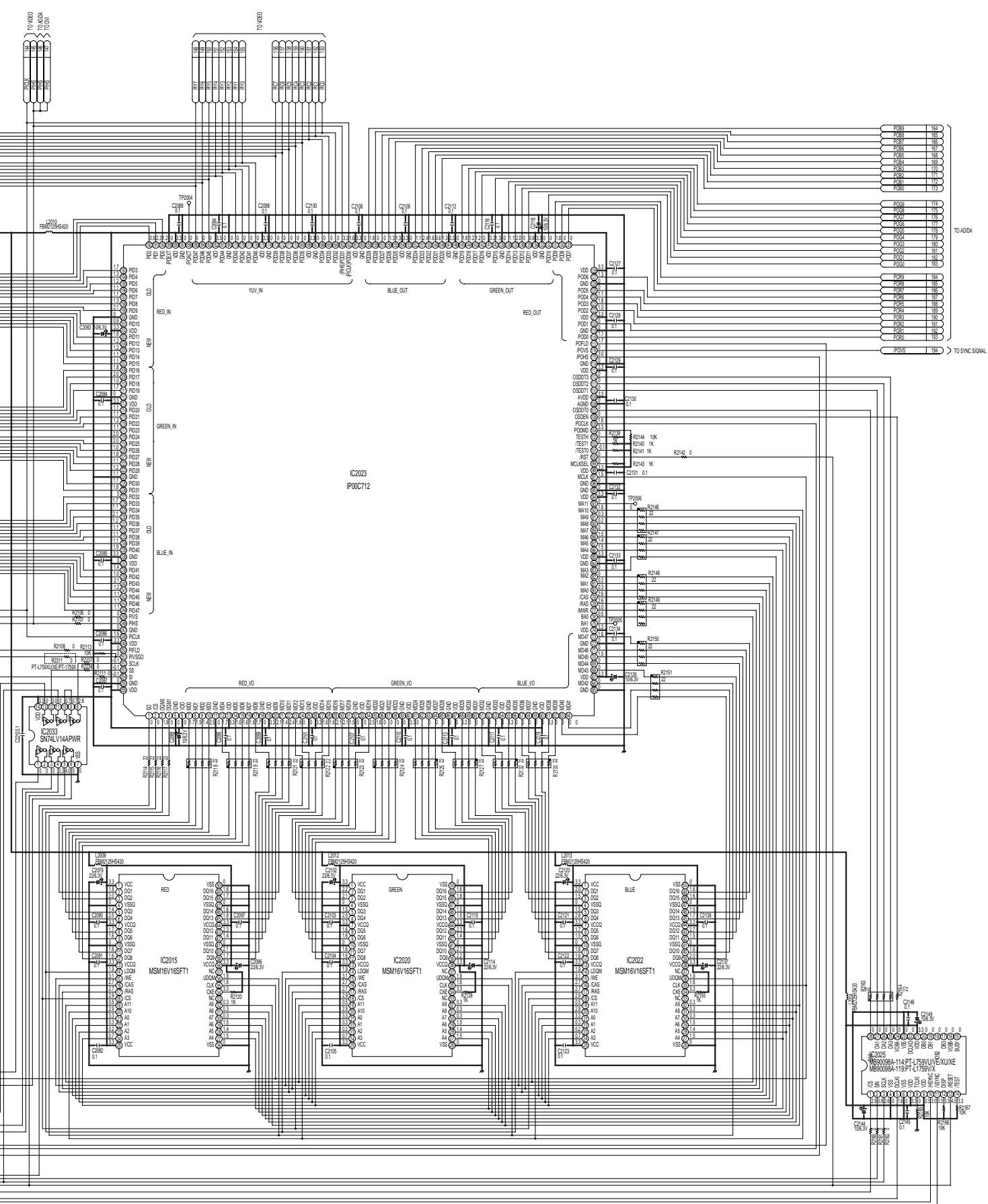


7.3. MAIN SHEMATIC DIAGRAM (LSEP3043A1: PT-L759XU/XE, LSEP3043C1: PT

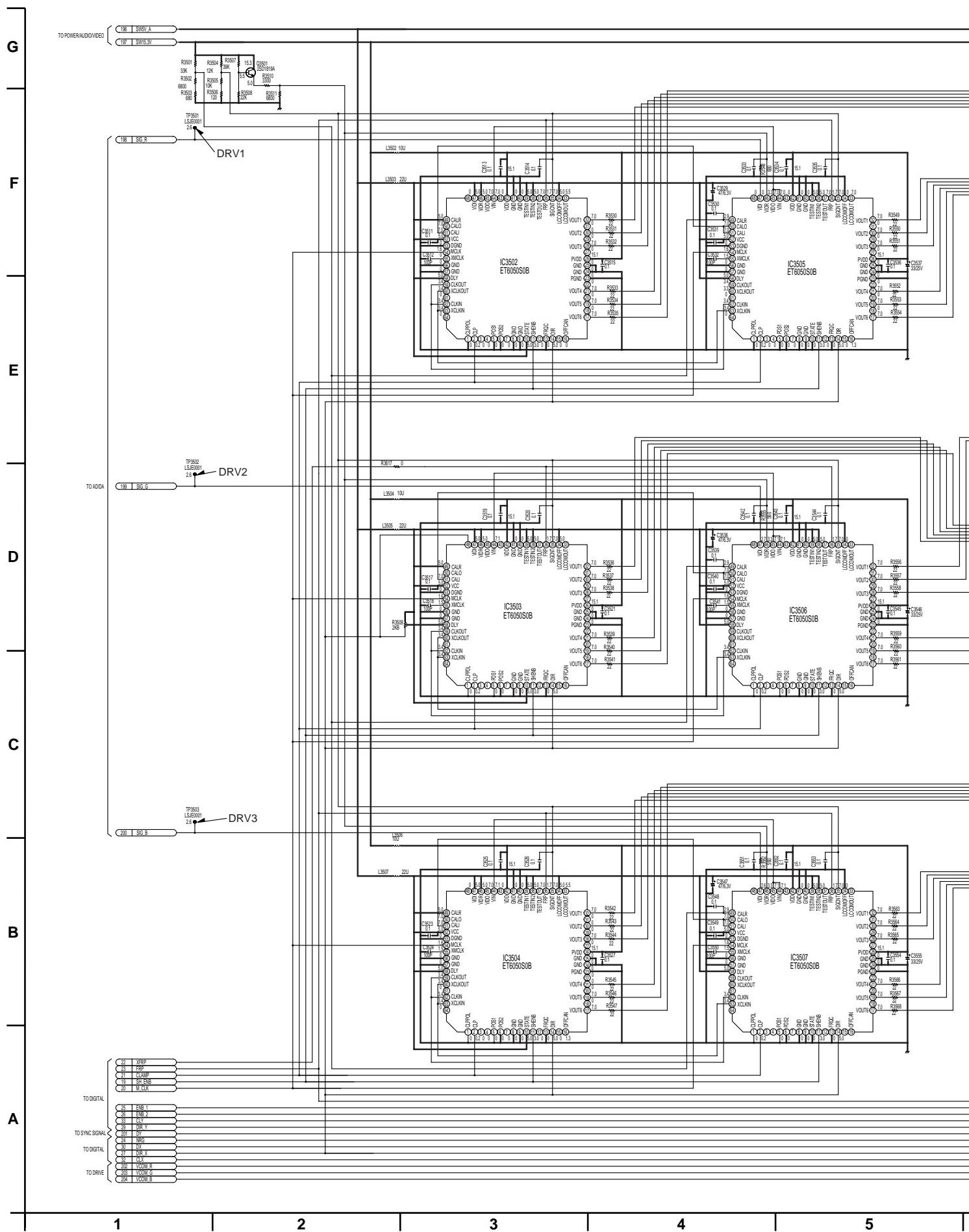
7.3.1. DIGITAL SECTION SCHEMATIC DIAGRAM

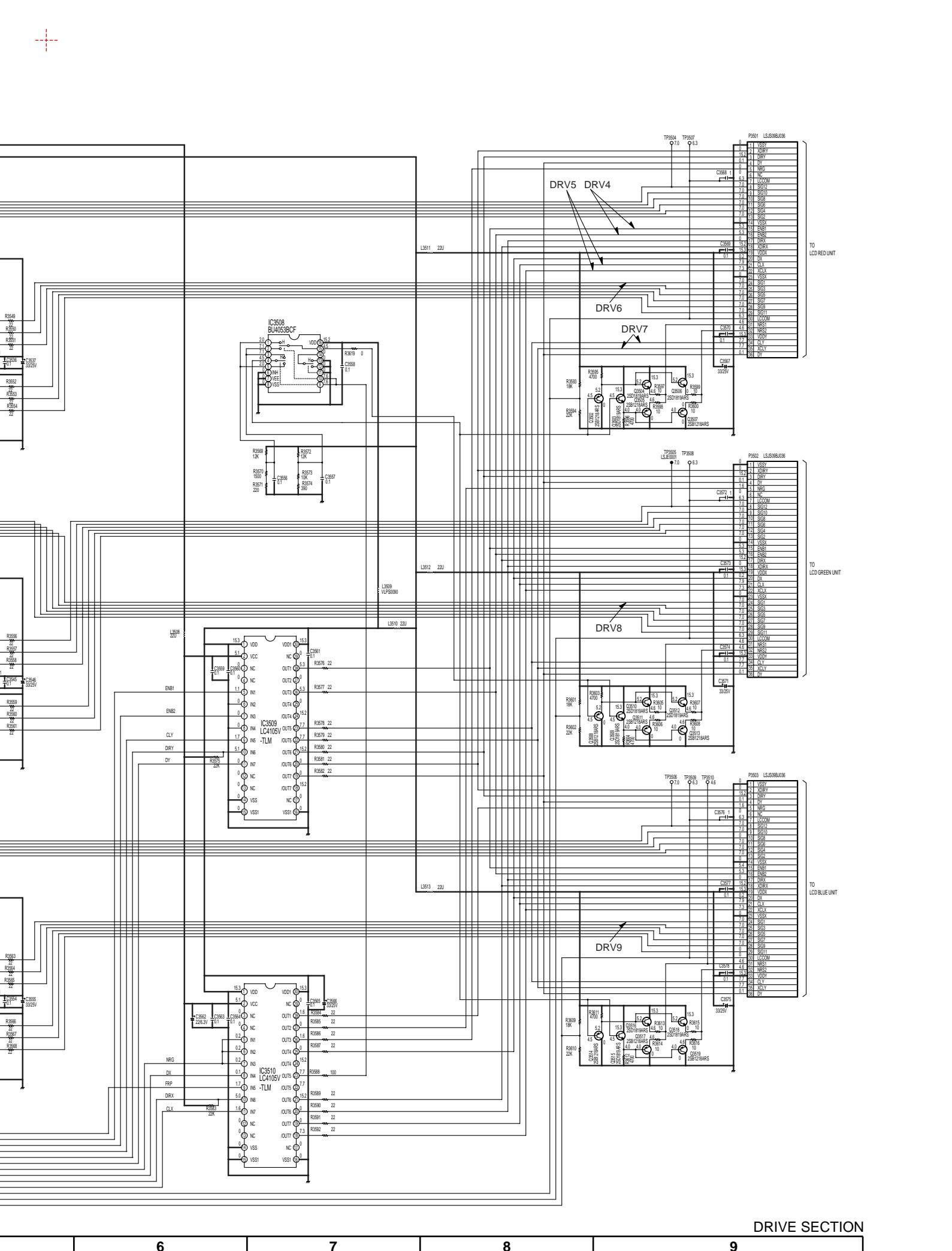


43C1: PT-1759X, LSEP3043F1: PT-L759VU/VE, LSEP3043H1: PT-1759V)



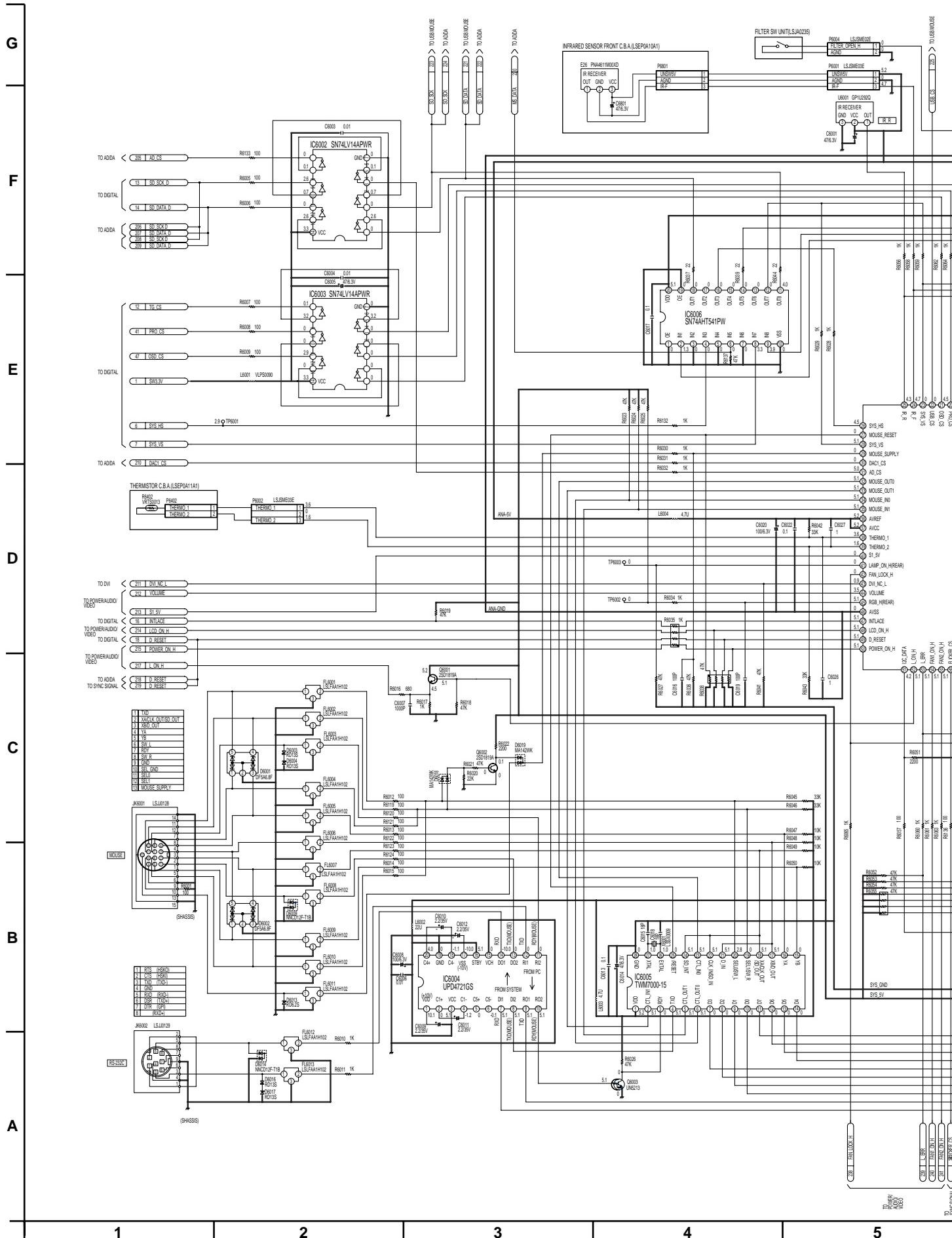
7.3.2. DRIVE SECTION SCHEMATIC DIAGRAM



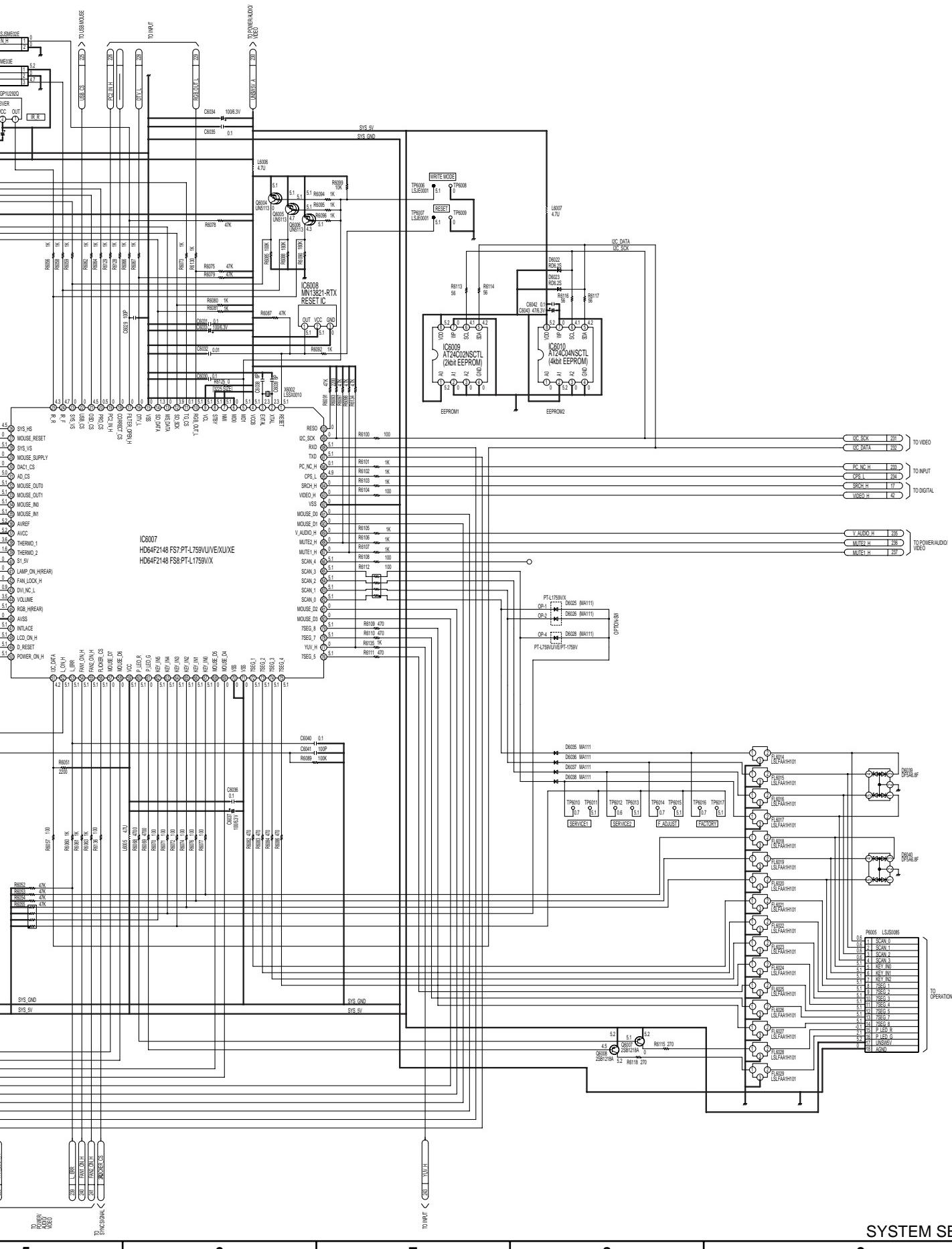


DRIVE SECTION

7.3.3. SYSTEM SECTION SCHEMATIC DIAGRAM (including INFRARED SENSOR C.B.A. and T.)



B.A. and THERMISTOR C.B.A. SCHEMATIC DIAGRAM)



SYSTEM SECTION

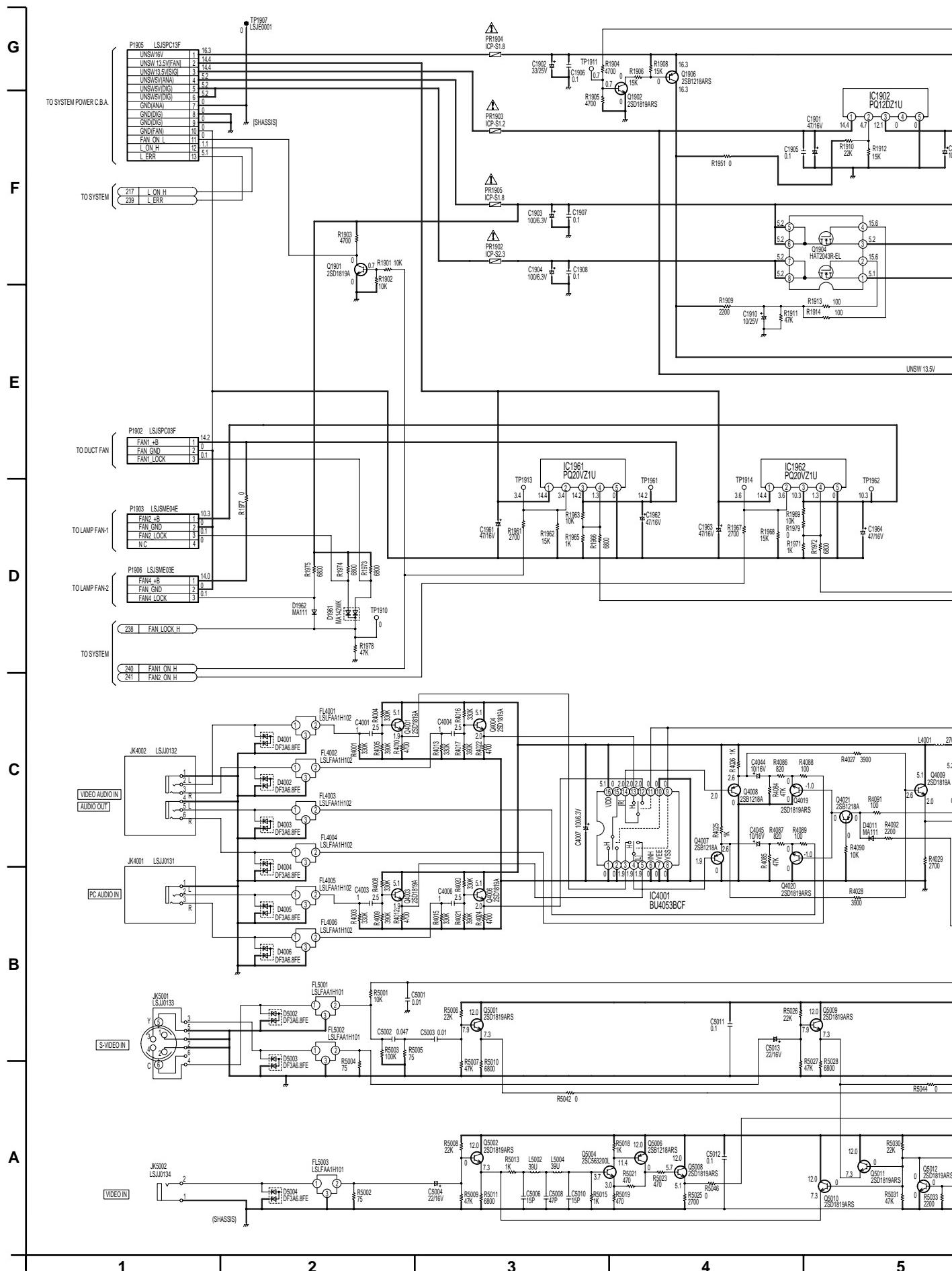


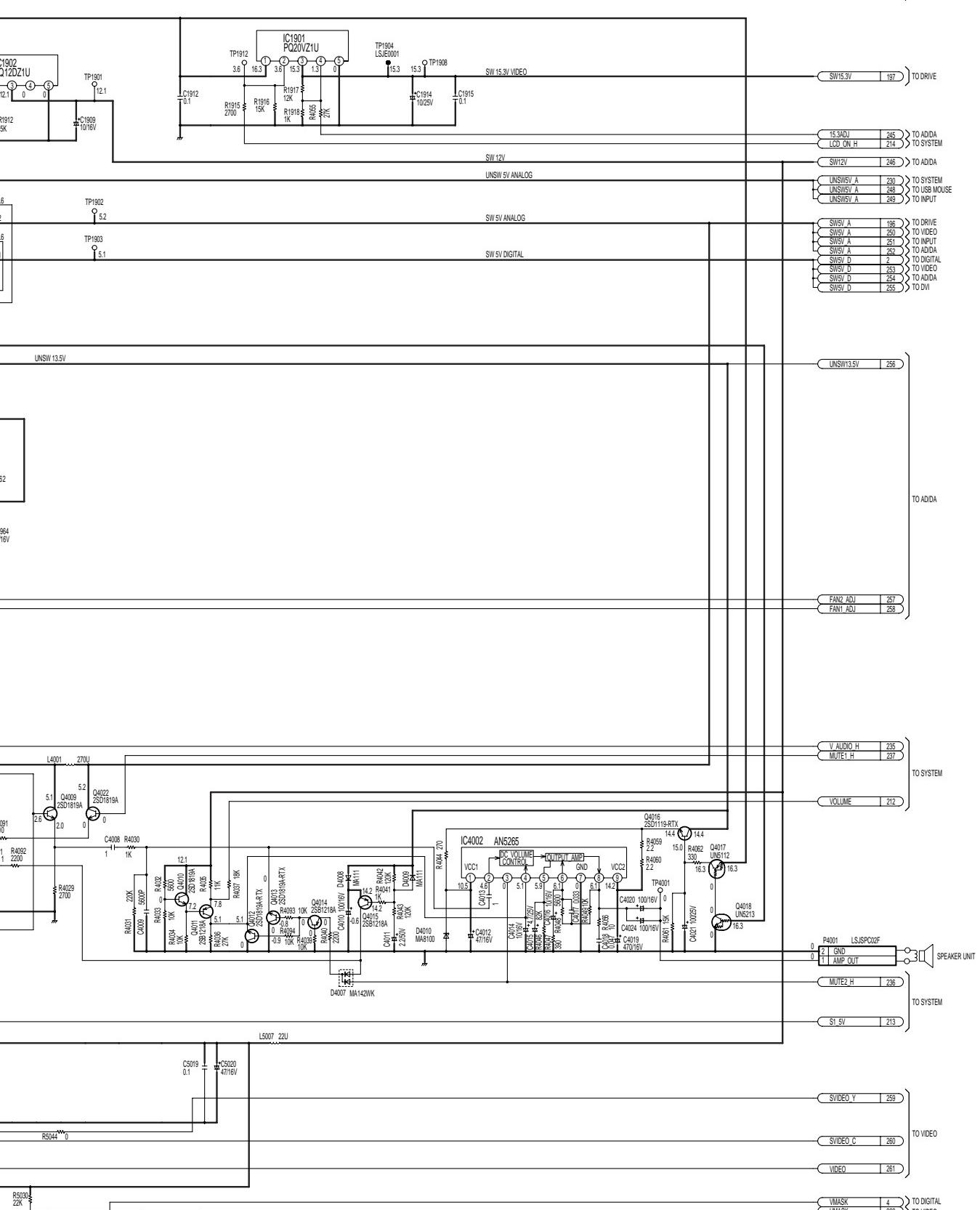
7.3.3.1. I/O CHART FOR SYSTEM MICROCONTROLLER: IC6007

PIN NO.	PORT NAME	I/O	FUNCTION	PIN NO.	PORT NAME	I/O	FUNCTION
1	RES	I	Reset: Input LOW	51	I2C DATA	I/O	I ² C Serial Data Input/Output
2	XTAL	I	Refrence Clock	52	L ON H	O	Lamp ON: HIGH
3	EXTAL	I	Refrence Clock	53	L ERR	I	Lamp Error Input
4	VCCB	-	+5V	54	FAN1 ON H	O	FAN1 ON: HIGH
5	MD1	I	+5V	55	FAN2 ON H	O	FAN2 ON: HIGH
6	MD0	I	Grounding Terminal	56	FLIKER CS		Fliker Control IC Chip Select : LOW
7	NMI	I	+5V	57	MOUSE D7	O	Mouse Data Output 7
8	STBY	I	+5V	58	MOUSE D6	O	Mouse Data Output 6
9	VCC	-	+5V	59	VCC	-	+5V
10	RGB OUT L	O	RGB 2 Output : LOW	60	P LED R	O	Power LED-R ON: LOW
11	TG CS	O	Timing Generator Chip Select: HIGH	61	P LED G	O	Power LED-G ON: LOW
12	SD SCK	O	Serial Clock Output	62	KEY IN5	I	Key Data IN 5 Input
13	MS DATA	I	Serial Data Input	63	KEY IN4	I	Key Data IN 4 Input
14	SD DATA	O	Serial Data Output	64	KEY IN3	I	Key Data IN 3 Input
15	VSS	-	Grounding Terminal	65	KEY IN2	I	Key Data IN 2 Input
16	DTV L	O	DTV Input : LOW	66	KEY IN1	I	Key Data IN 1 Input
17	FILTER OPEN H	I	Filter Open: HIGH	67	KEY IN0	I	Key Data IN 0 Input
18	CORRECT CS	O	(Not Used)	68	MOUSE D5	O	Mouse Data Output 5
19	DC2 IN H	O	RGB2 Input Select : HIGH	69	MOUSE D4	O	Mouse Data Output 4
20	PRO CS	O	Process IC Chip Select: LOW	70	VSS	-	Grounding Terminal
21	OSD CS	O	OSD Chip Select: LOW	71	VSS	-	Grounding Terminal
22	USB CS	O	USB Microprocessor Chip Select : HIGH	72	7SEG 1	O	7 Segment LED-a ON: LOW
23	SYS VS	I	V-Sync Interrupt Input	73	7SEG 2	O	7 Segment LED-f ON: LOW
24	IR F	I	Front IR Remote Control Data Interrupt Input	74	7SEG 3	O	7 Segment LED-g ON: LOW
25	IR R	I	Rear IR Remote Control Data Interrupt Input	75	7SEG 4	O	7 Segment LED-e ON: LOW
26	SYS HS	I	VIDEO H-Sync Signal Input	76	7SEG 5	O	7 Segment LED-d ON: LOW
27	MOUSE RESET	O	Mouse IC Reset: LOW	77	YUV H	O	YPbPr Mode : HIGH
28	SYS VS	I	VIDEO V-Sync Signal Input	78	7SEG 7	O	7 Segment LED-c ON: LOW
29	MOUSE SUPPLY	I	Mouse Supply Detect Input: HIGH	79	7SEG 8	O	7 Segment LED-b ON: LOW
30	DAC1 CS	O	D/A Converter 1 Chip Select: HIGH	80	MOUSE D3	O	Mouse Data Output 3
31	AD CS	O	A/D Convertor Chip Select : LOW	81	MOUSE D2	O	Mouse Data Output 2
32	MOUSE OUT0	O	Mouse Control Output 0	82	SCAN0	O	Scan Pulse 0 Output
33	MOUSE OUT1	O	Mouse Control Output 1	83	SCAN1	O	Scan Pulse 1 Output
34	MOUSE IN0	I	Mouse Control Interrupt Input 0	84	SCAN2	O	Scan Pulse 2 Output
35	MOUSE IN1	I	Mouse Control Interrupt Input 1	85	SCAN3	O	Scan Pulse 3 Output
36	AVREF	-	+5V	86	SCAN4	O	(Not Used)
37	AVCC	-	+5V	87	MUTE1 H	O	Mute: HIGH
38	THERMO 1	I	Thermo 1 Temp. Data Input	88	MUTE2 H	O	Volume=0: HIGH
39	THERMO 2	I	Thermo 2 Temp. Data Input	89	V AUDIO H	O	VIDEO Input Mode: HIGH
40	S1 5V	I	Wide Signal Detect Input : HIGH	90	MOUSE D1	O	Mouse Data Output 1
41	LAMP ON H	I	(Not Used)	91	MOUSE D0	O	Mouse Data Output 0
42	FAN LOCK H	I	Cooling Fan Lock: HIGH	92	VSS	-	Grounding Terminal
43	DVI NC L	I	DVI-D Input Signalless: LOW	93	VIDEO H	O	VIDEO/S-VIDEO Mode: HIGH
44	VOLUME	I	Audio Volume Control	94	SRCH H	O	Auto Setup Trigger Pulse
45	RGB H	I	(Not Used)	95	CPS L	I	Composit Sync: LOW Separate Sync: HIGH
46	AVSS	-	Grounding Terminal	96	PC NC H	I	RGB Input Signalless: HIGH
47	INTLACE	I	Interlace Signal Detect	97	TXD	O	Transmitted Data (RS232C)
48	LCD ON H	O	LCD Power ON : HIGH	98	RXD	I	Received Data (RS232C)
49	D RESET	O	Digital 5V Reset: HIGH	99	I2C SCK	O	I ² C Sereal Clock Output
50	POWER ON H	O	Power ON: HIGH	100	RESO	O	Reset Output : LOW



7.3.4. POWER/AUDIO/VIDEO SECTION SCHEMATIC DIAGRAM



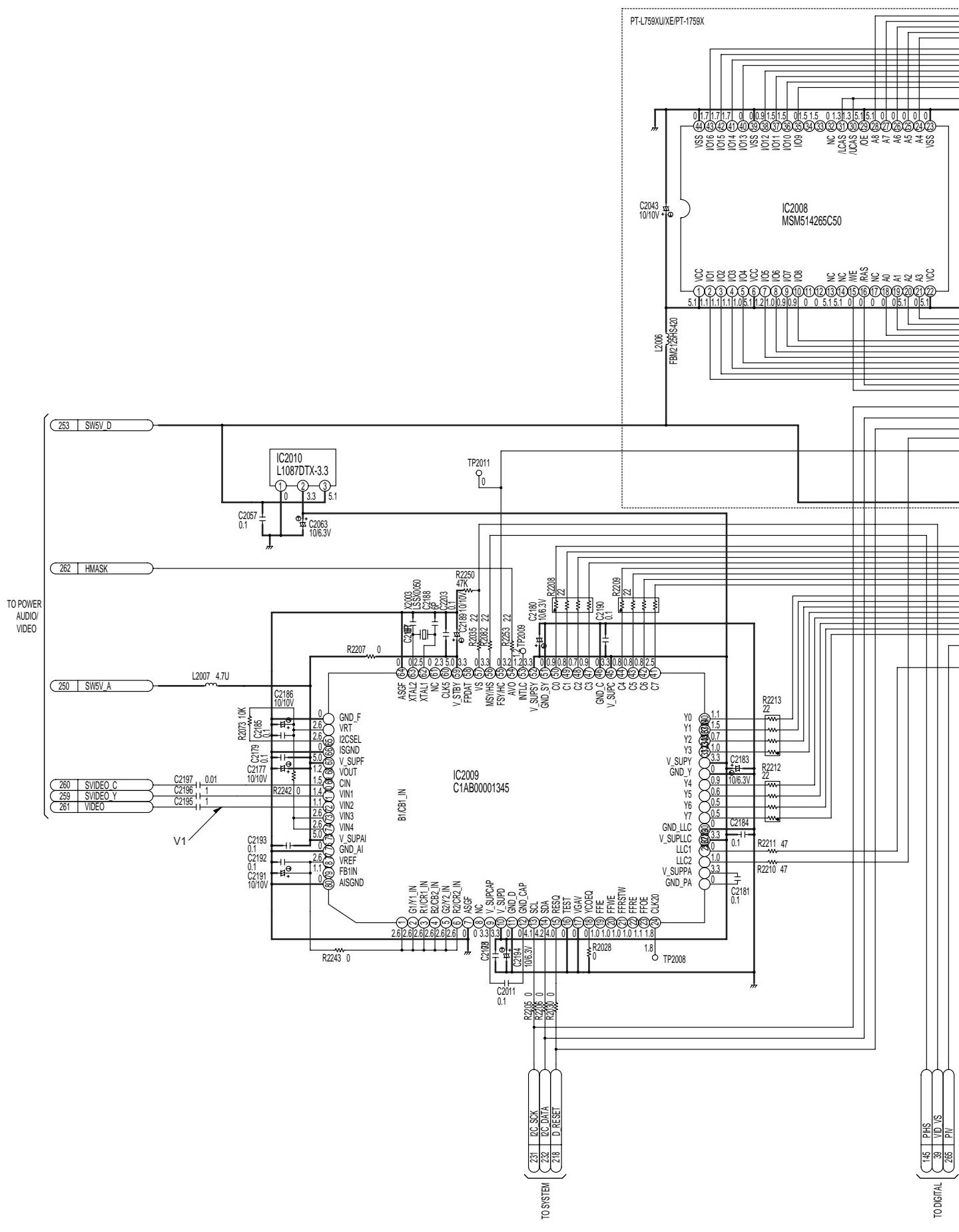


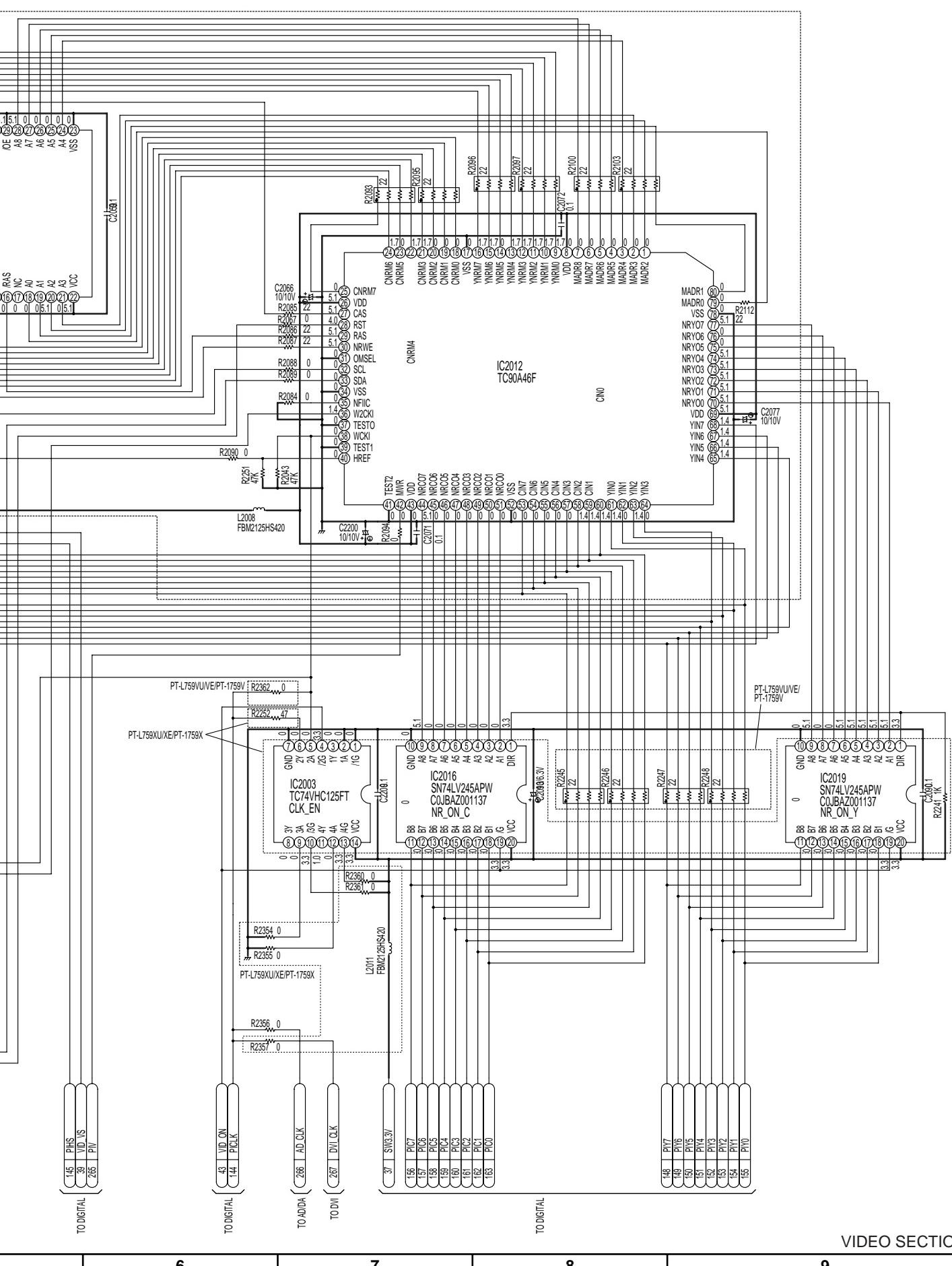
IMPORTANT SAFETY NOTICE:

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SINE HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

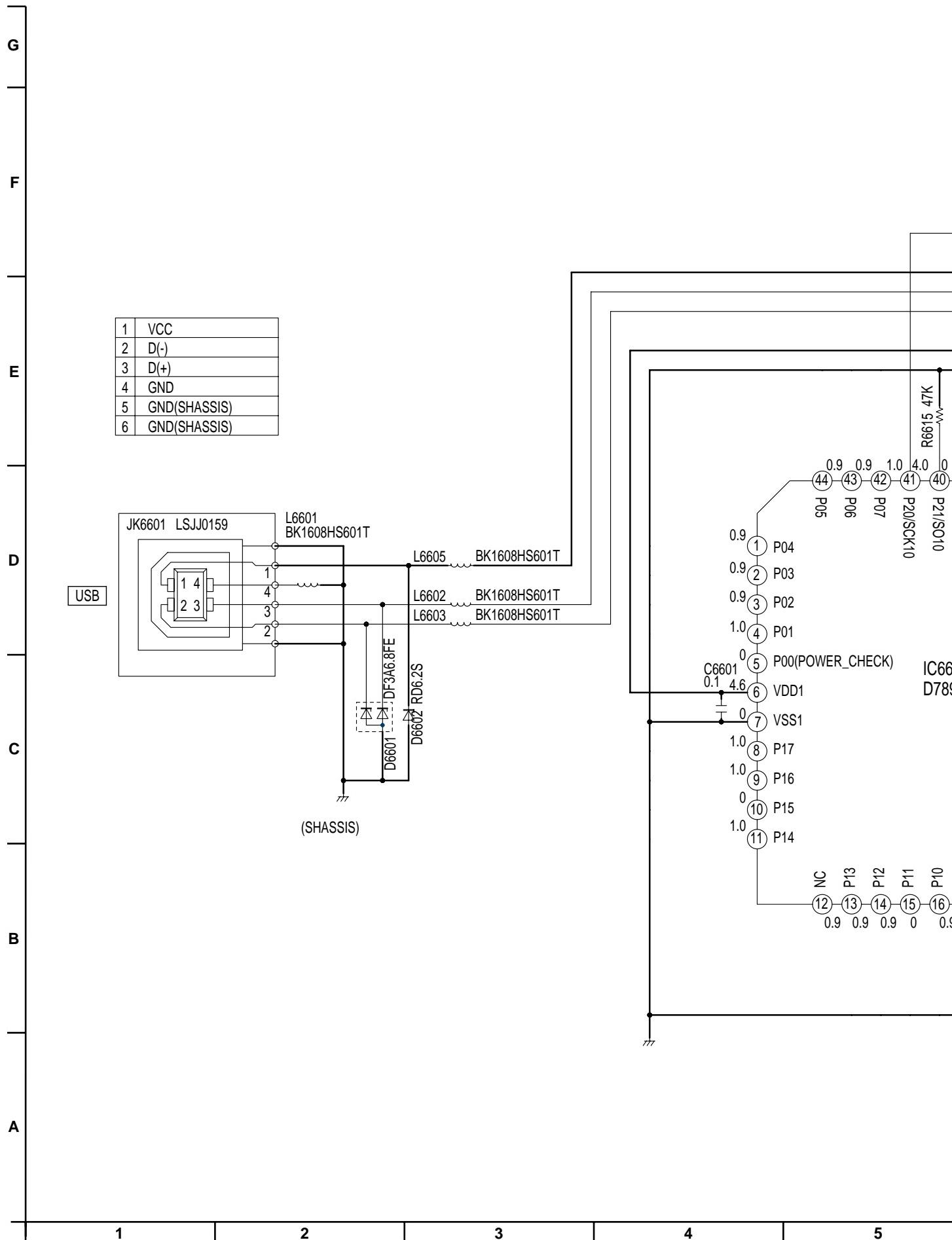
POWER/AUDIO/VIDEO SECTION

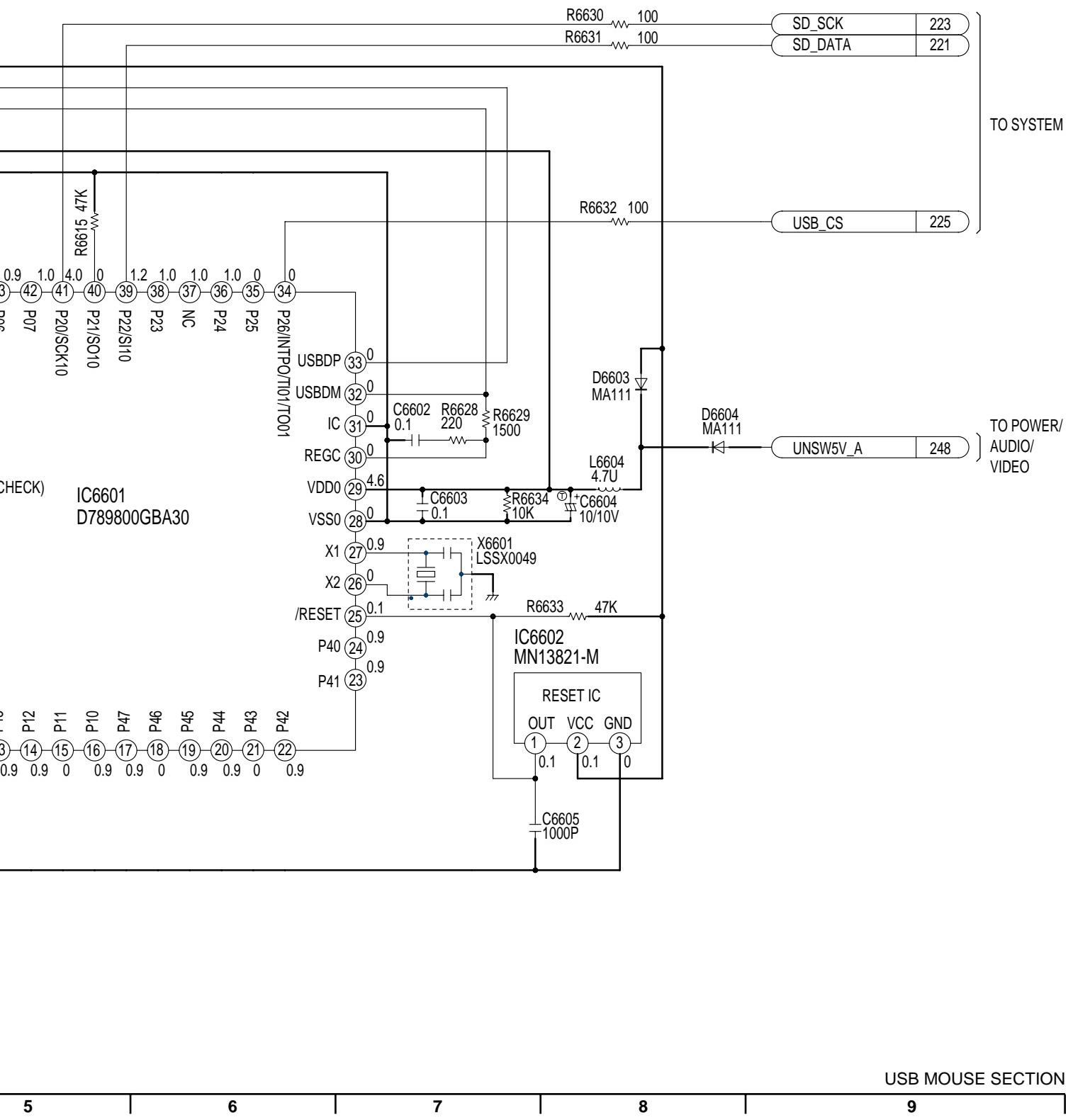
7.3.5. VIDEO SECTION SCHEMATIC DIAGRAM



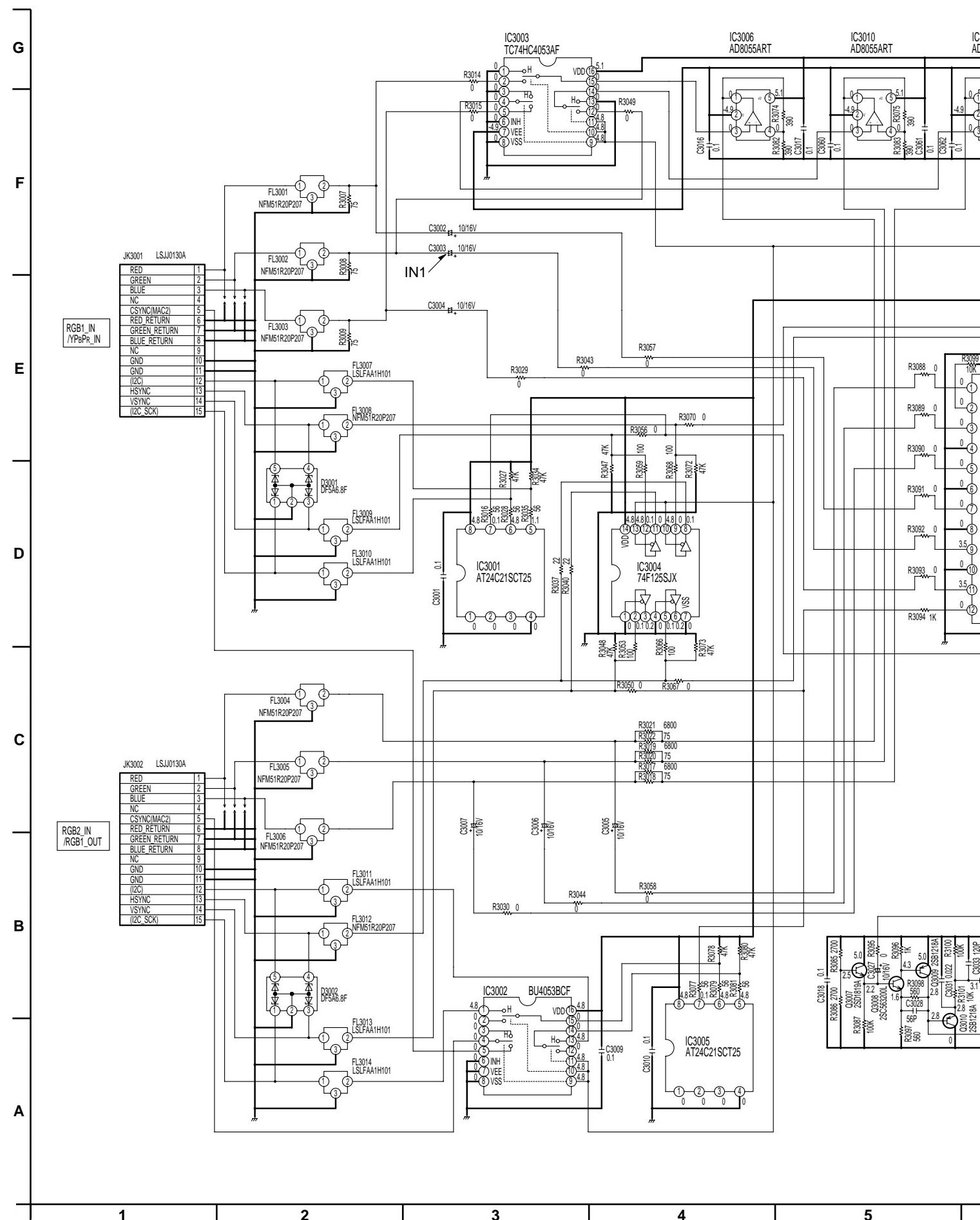


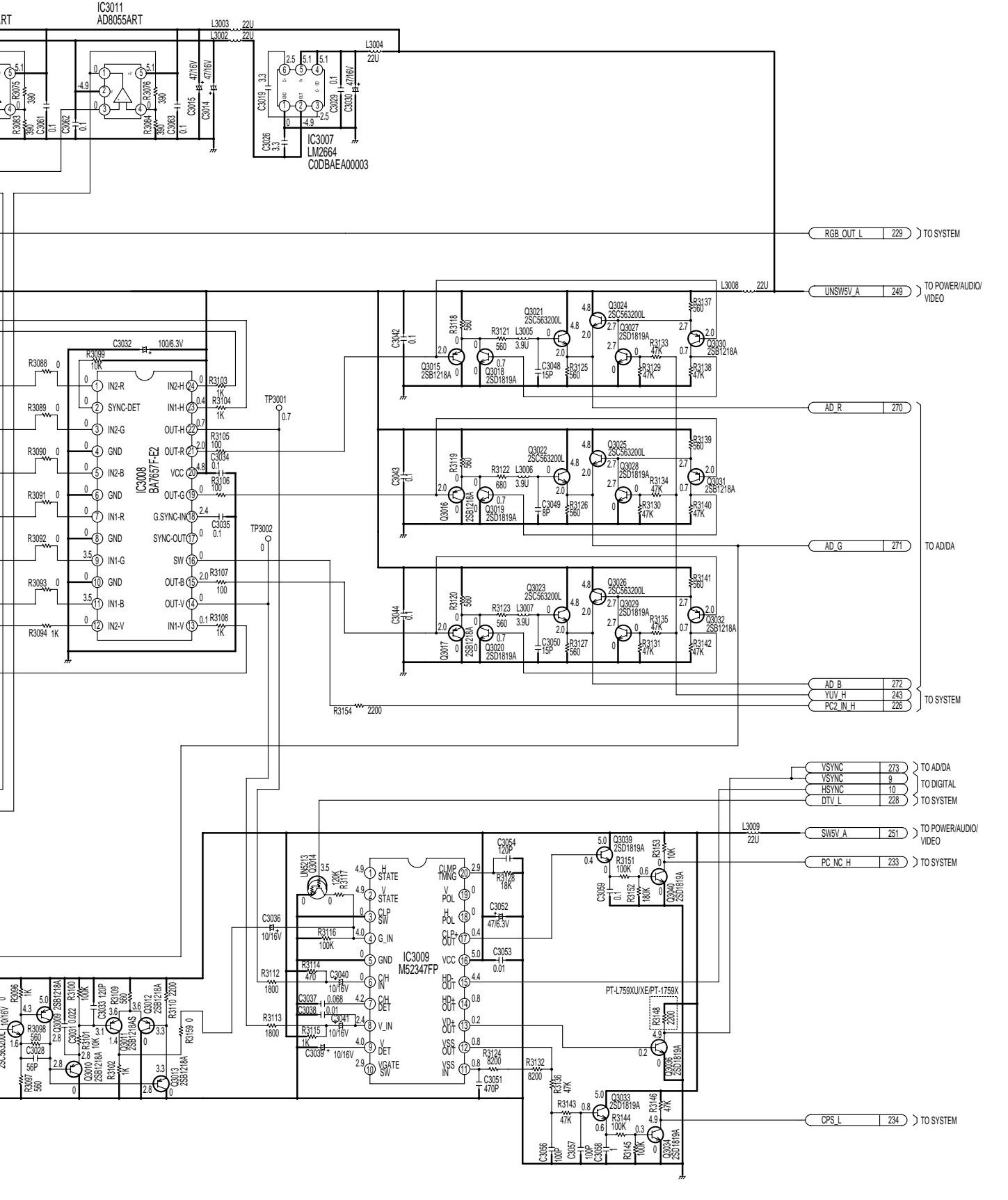
7.3.6. USB MOUSE SECTION SCHEMATIC DIAGRAM



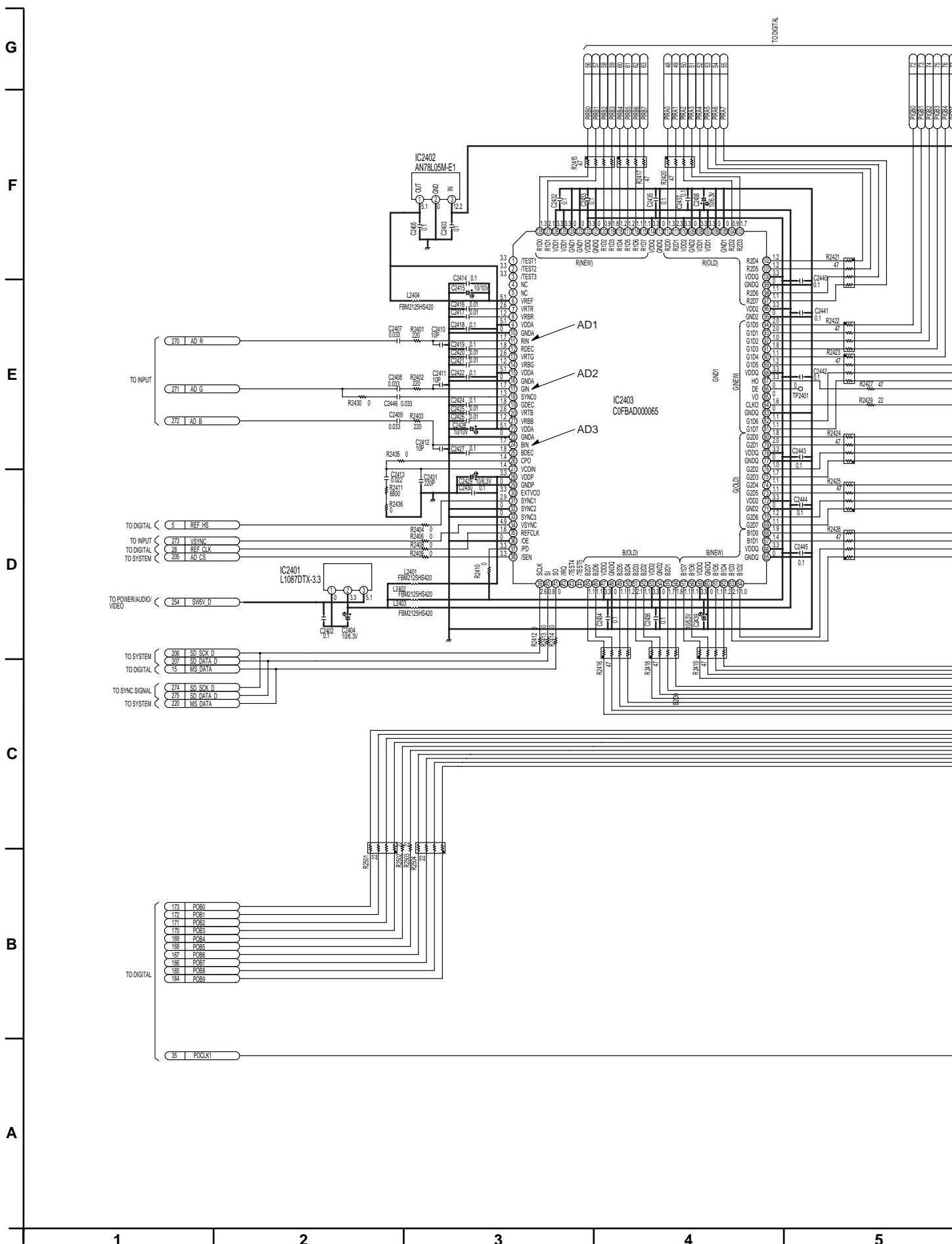


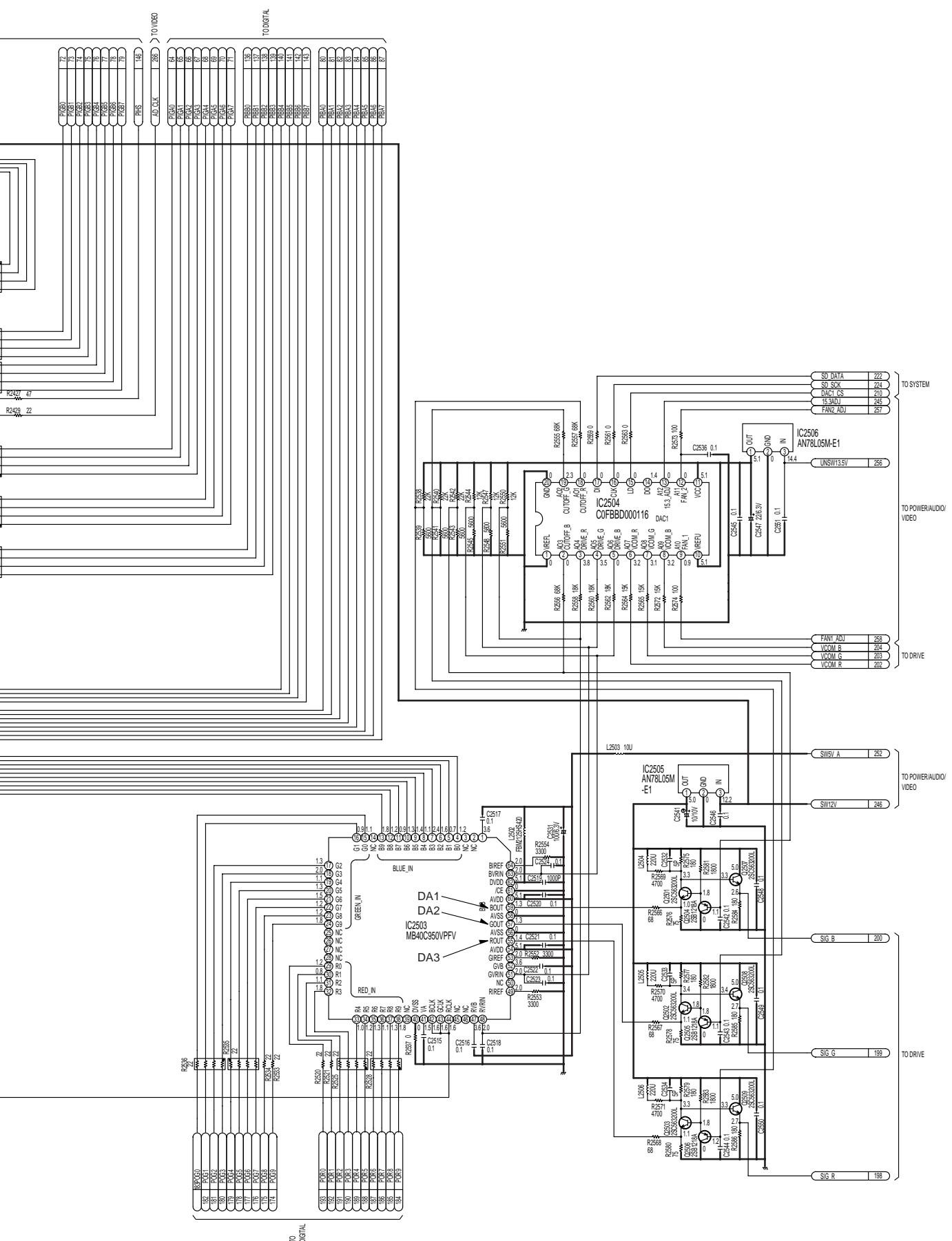
7.3.7. INPUT SECTION SCHEMATIC DIAGRAM





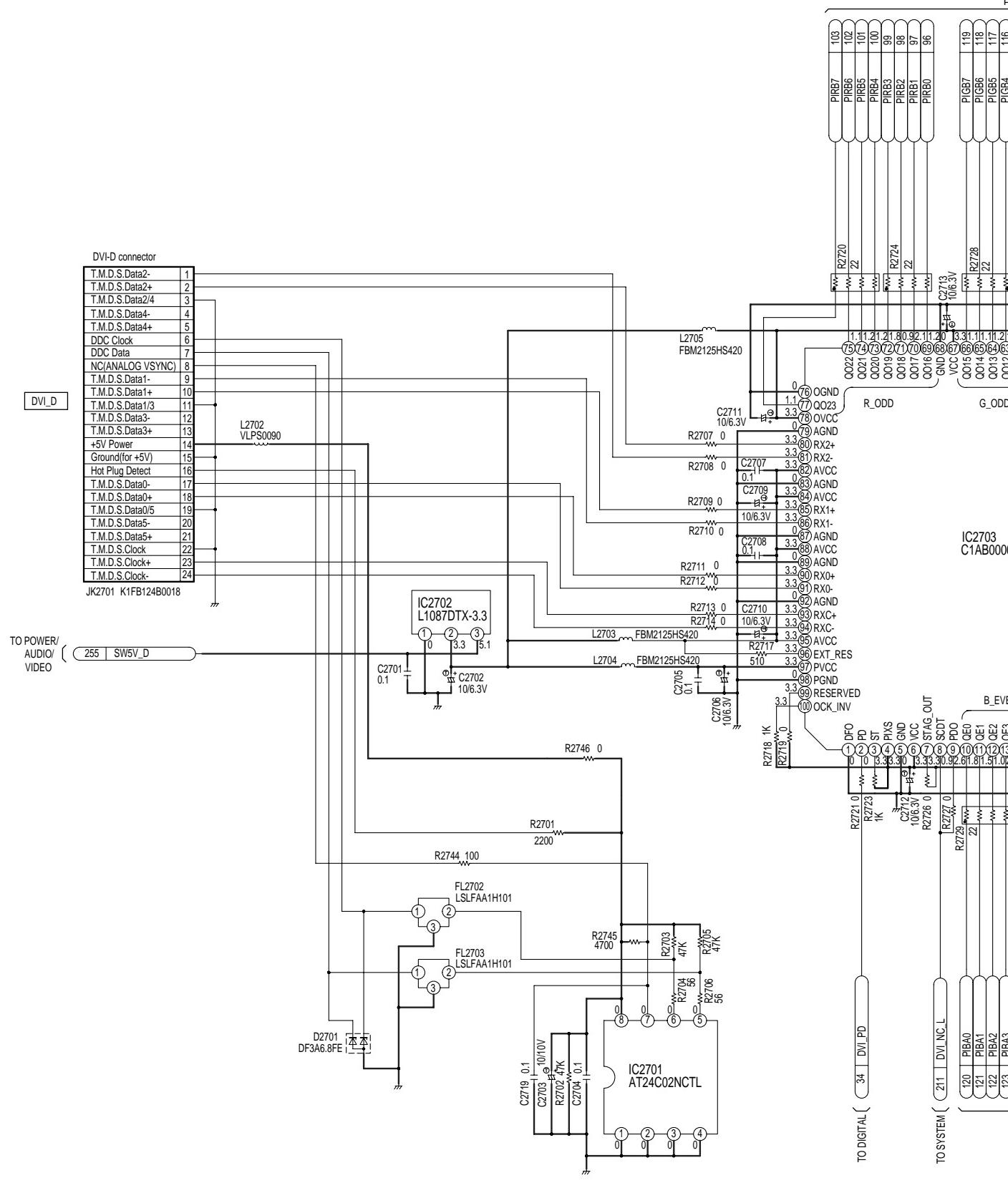
7.3.8. AD/DA SECTION SCHEMATIC DIAGRAM

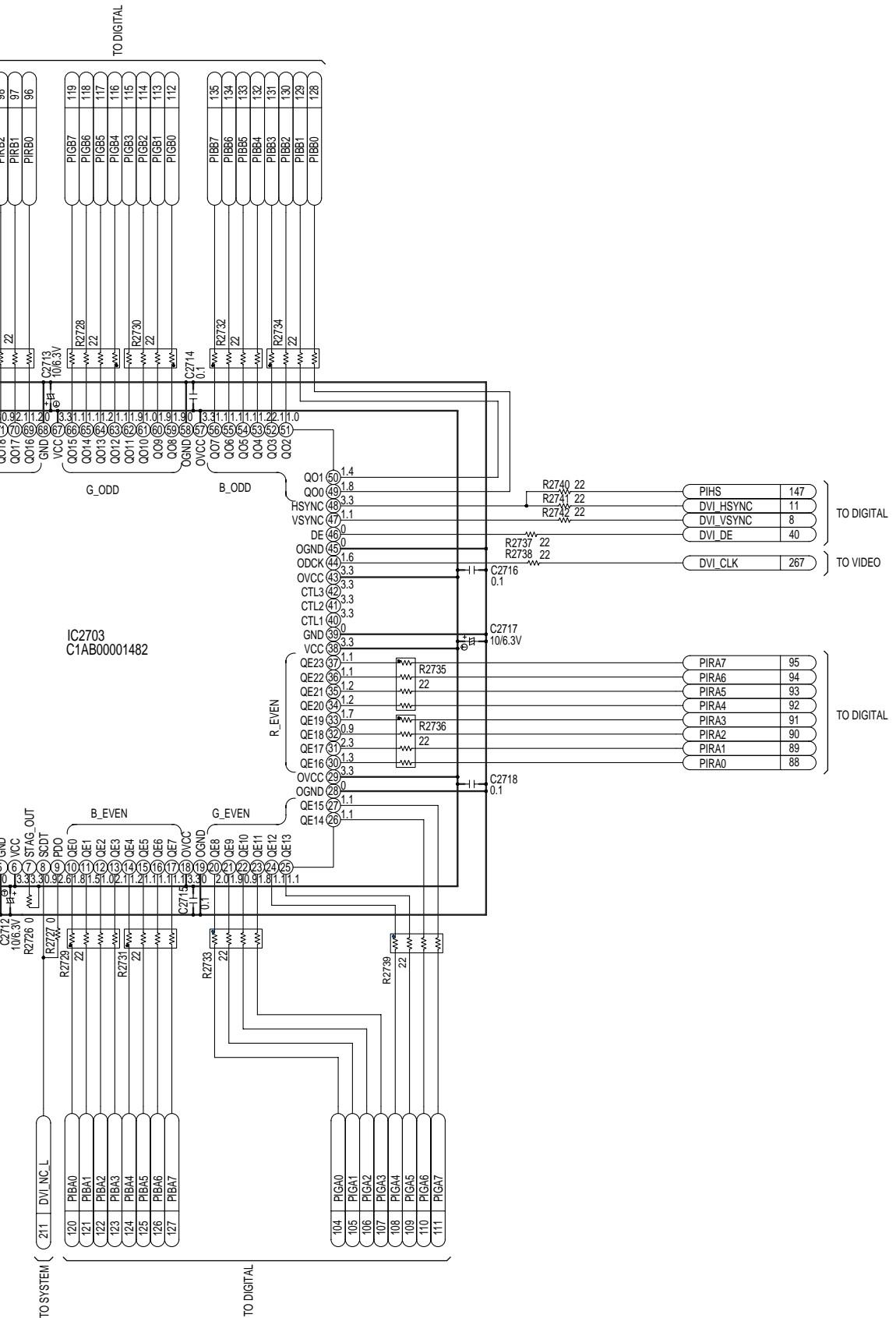




AD/DA SECTION

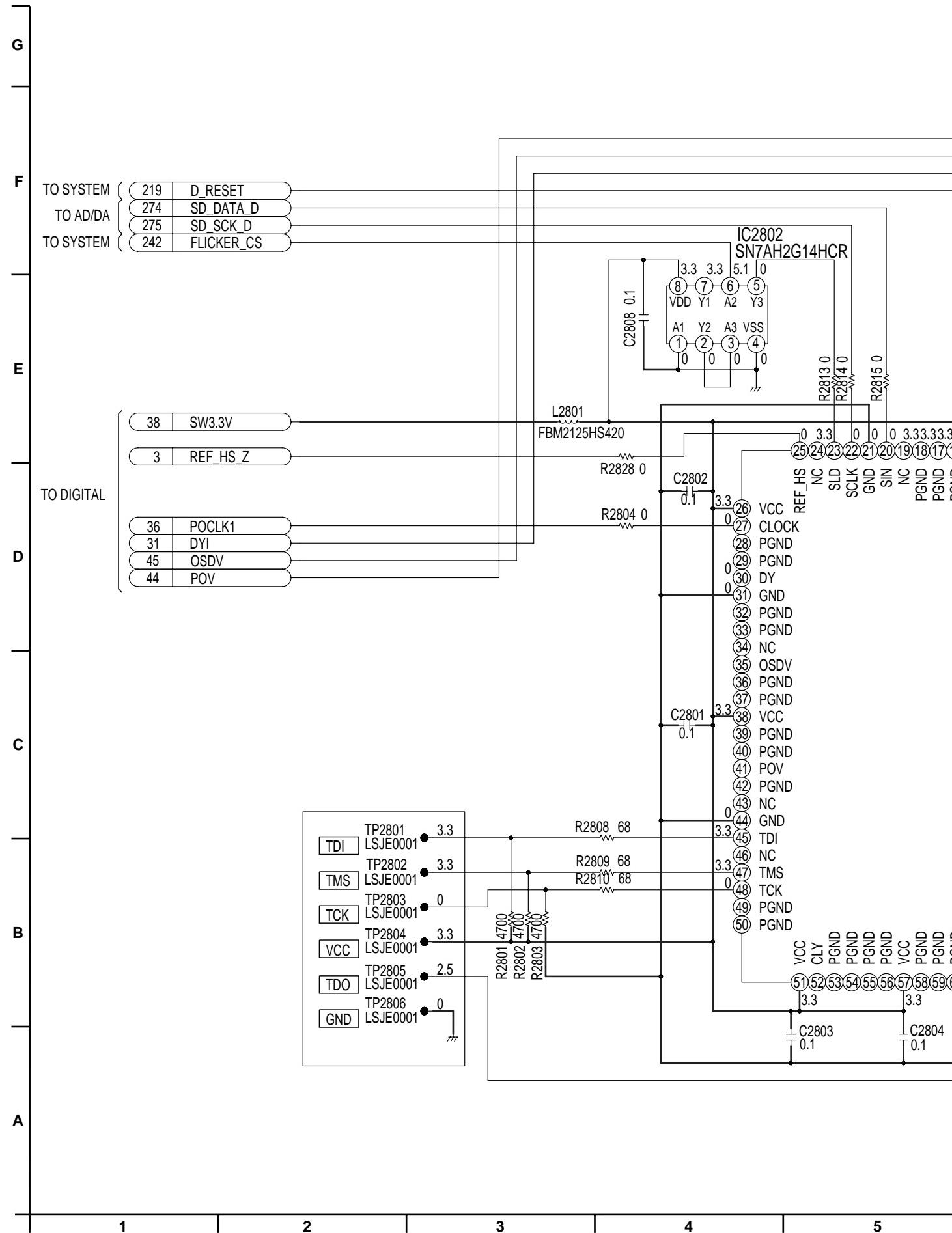
7.3.9. DVI SECTION SCHEMATIC DIAGRAM (PT-L759XU/XE/PT-L1759X only)

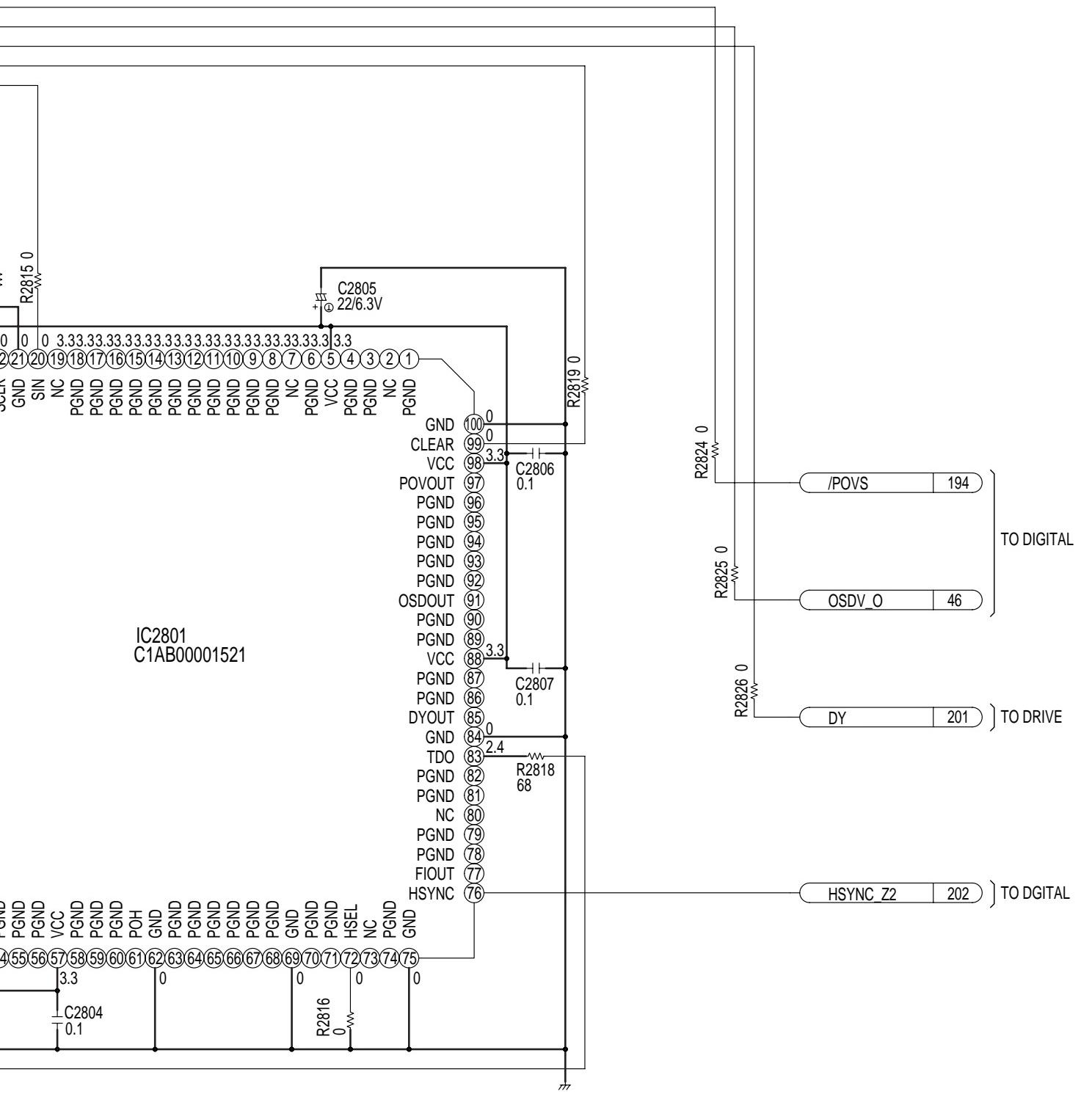




DVI SECTION:PT-L759XU/XE/PT-1759X

7.3.10. SYNC SIGNAL SECTION SCHEMATIC DIAGRAM





SYNC SIGNAL SECTION

5 6 7 8 9



7.3.11. WAVEFORM

